

4.2.A. 0513010401.

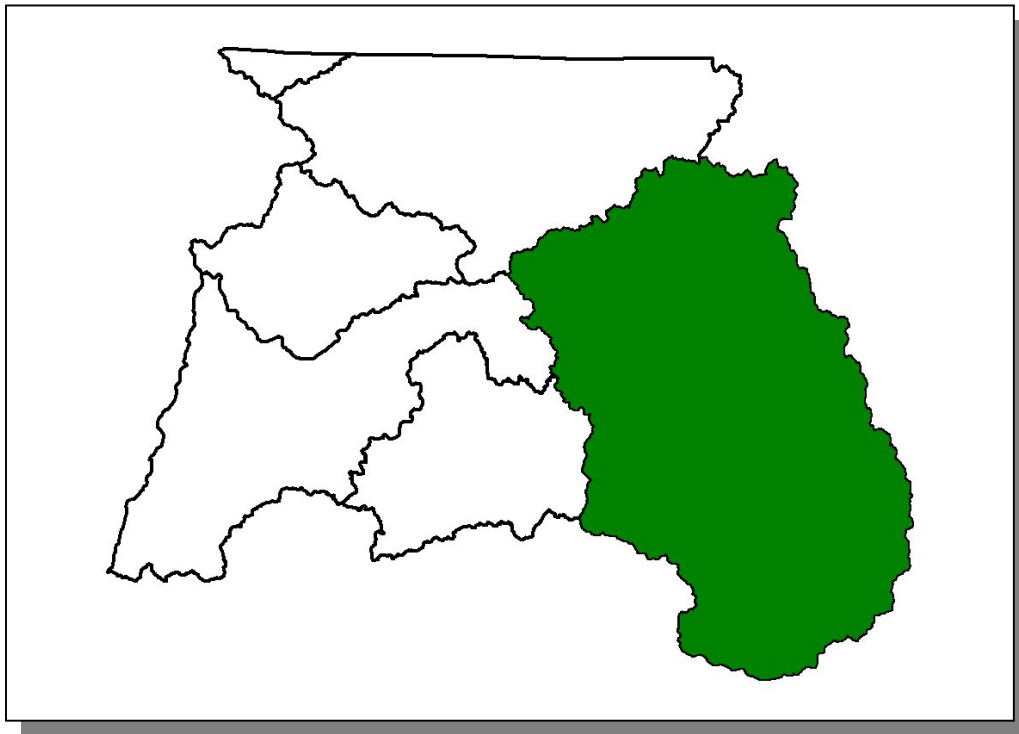


Figure 4-2. Location of Subwatershed 0513010401. All South Fork Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.A.i. 051301040101 (New River).

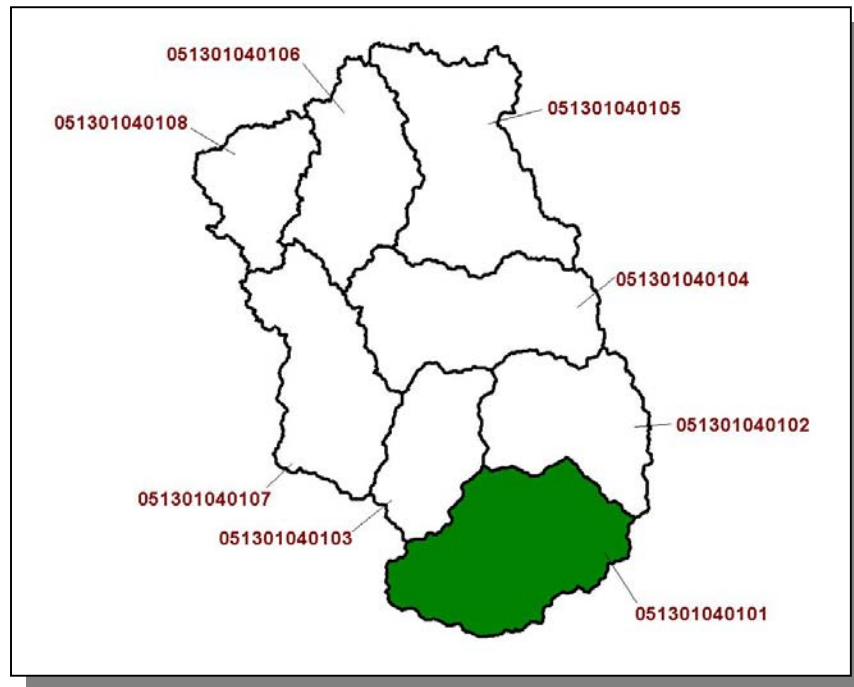


Figure 4-3. Location of Subwatershed 051301040101. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

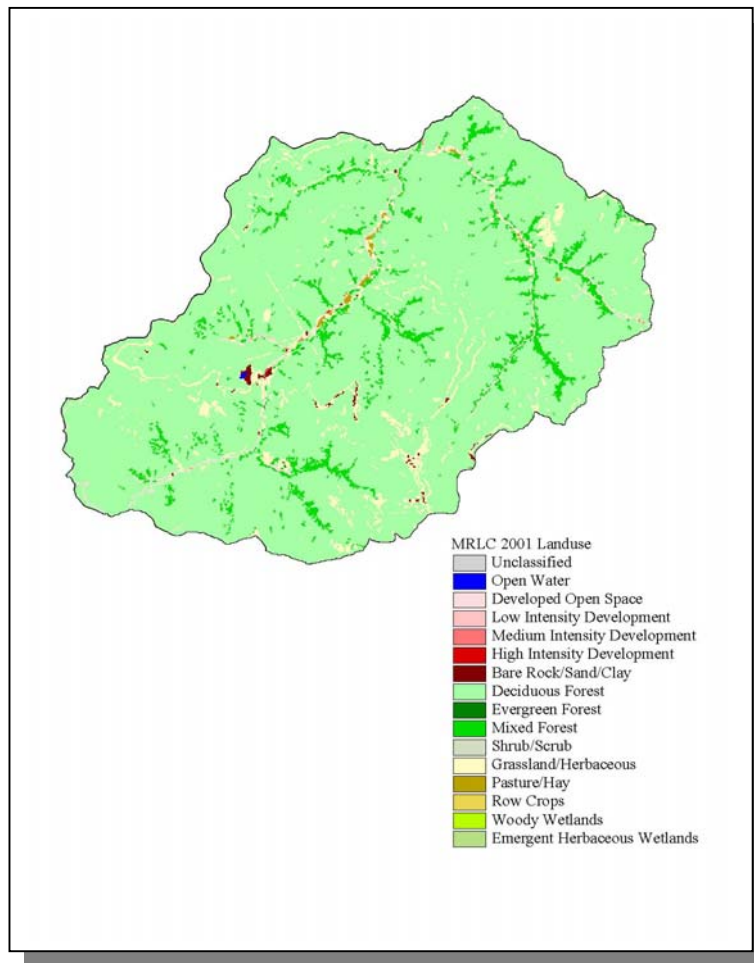


Figure 4-4. Illustration of Land Use Distribution in Subwatershed 051301040101.

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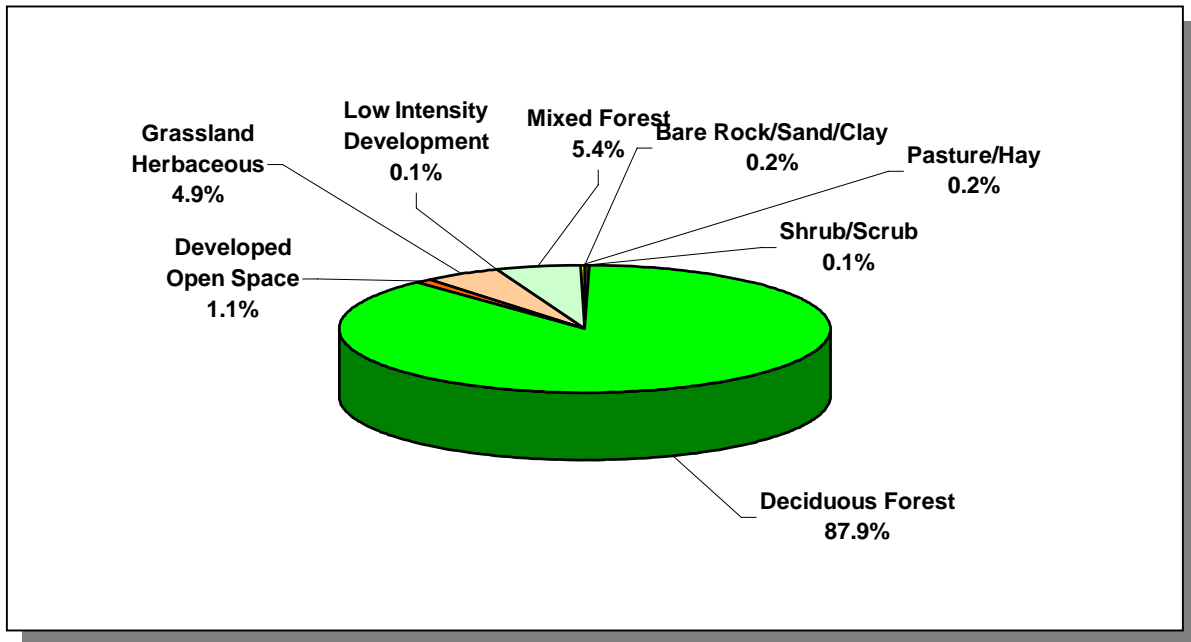


Figure 4-5. Land Use Distribution in Subwatershed 051301040101. More information is provided in Appendix IV.

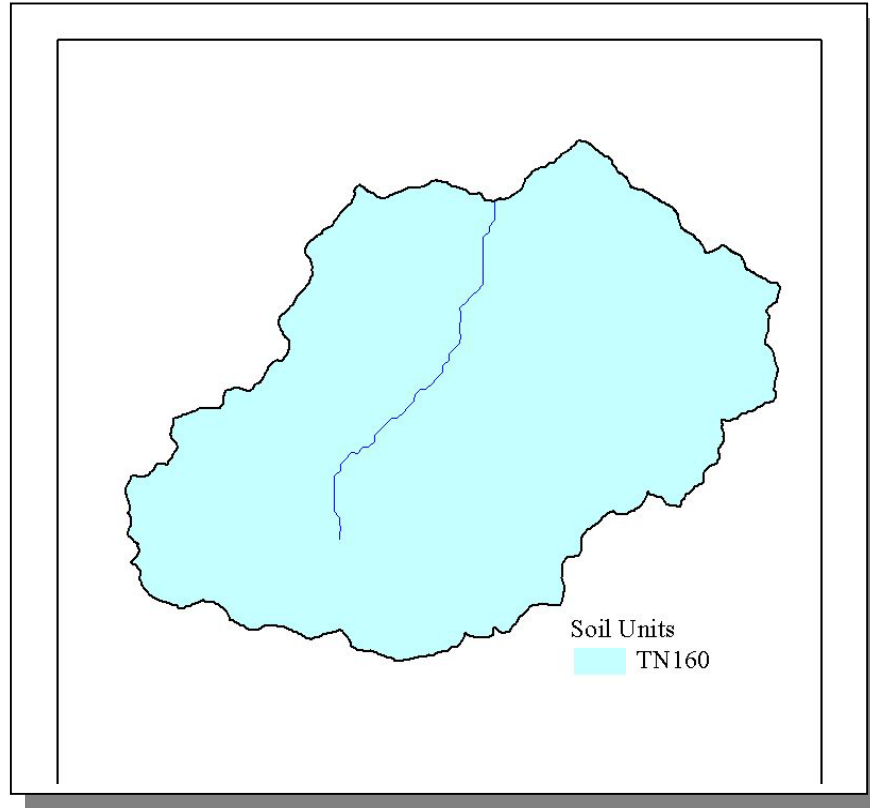


Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040101. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Anderson	68,250	71,498	71,330	18.21	12,427	13,019	12,988	4.5
Campbell	35,079	37,878	39,854	0.01	4	4	5	25.0
Morgan	17,300	18,521	19,757	0.1	121	129	138	14.0
Scott	18,358	19,816	21,127	0.06	12	13	14	16.7
Total	138,987	147,713	152,206		12,564	13,165	13,145	4.6

Table 4-3. Population Estimates in Subwatershed 051301040101.

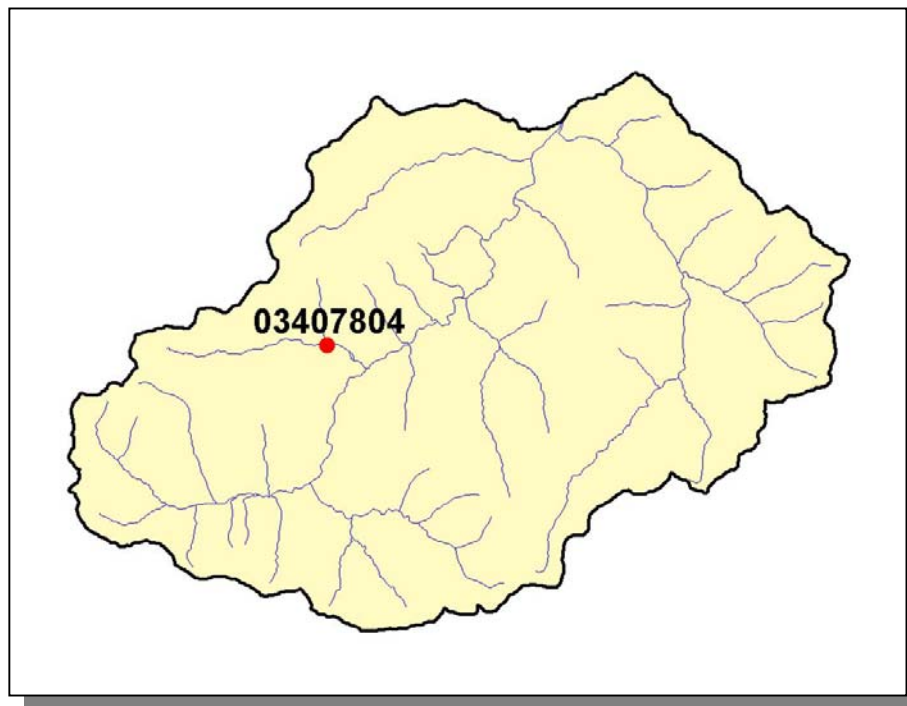


Figure 4-7. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040101. More information is provided in Appendix IV.

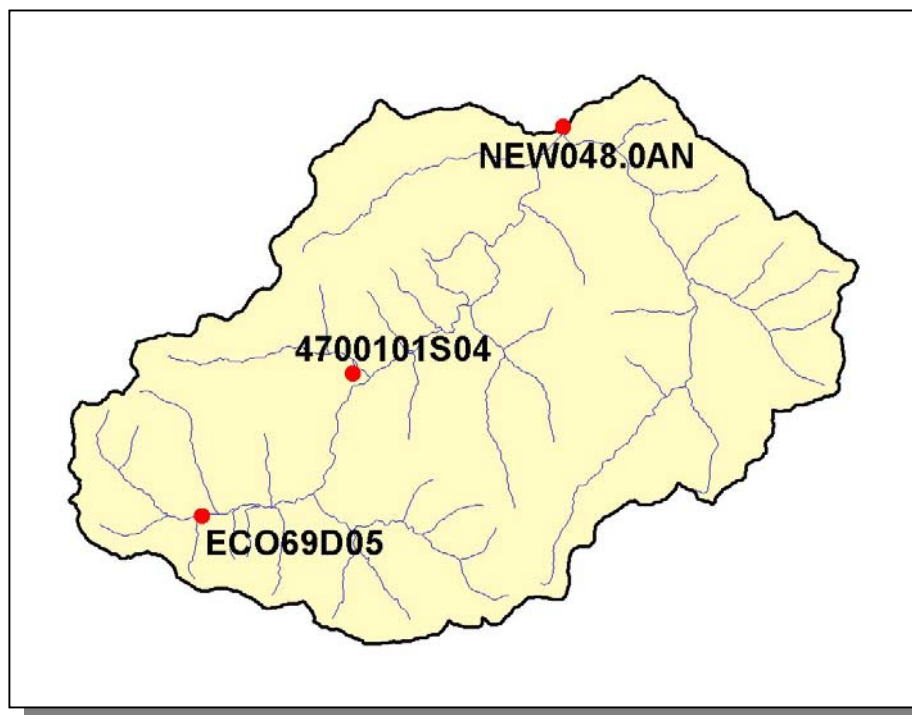


Figure 4-8. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040101. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.i.a. Point Source Contributions.



Figure 4-9. Location of Permits Issued in Subwatershed 051301040101. More information, including the names of facilities, is provided in Appendix IV.

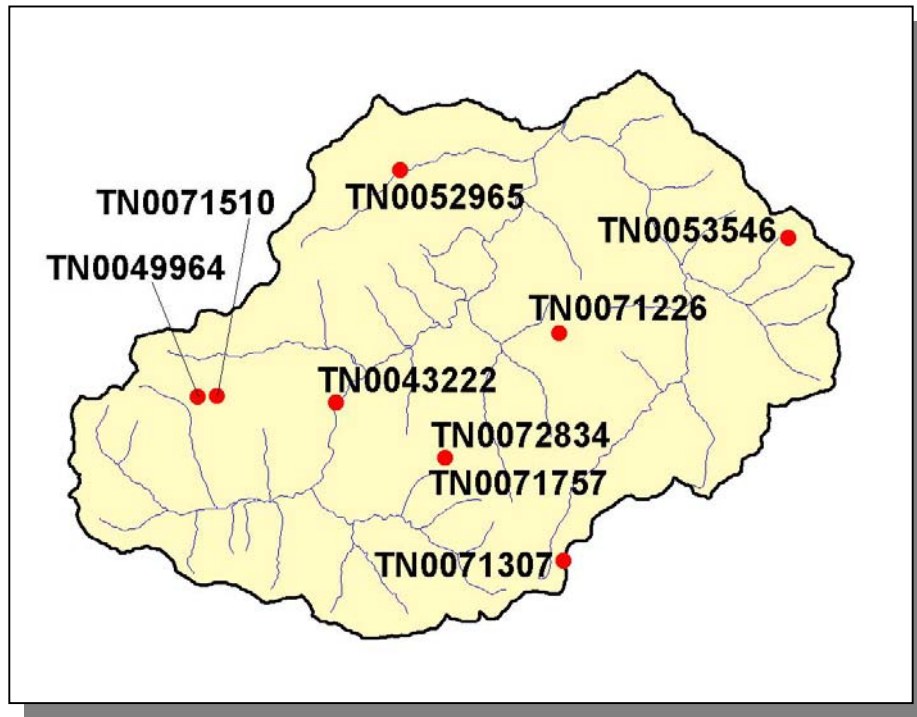


Figure 4-10. Location of Active Mining Sites in Subwatershed 051301040101. More information, including the names of mining operations, is provided in Appendix IV.

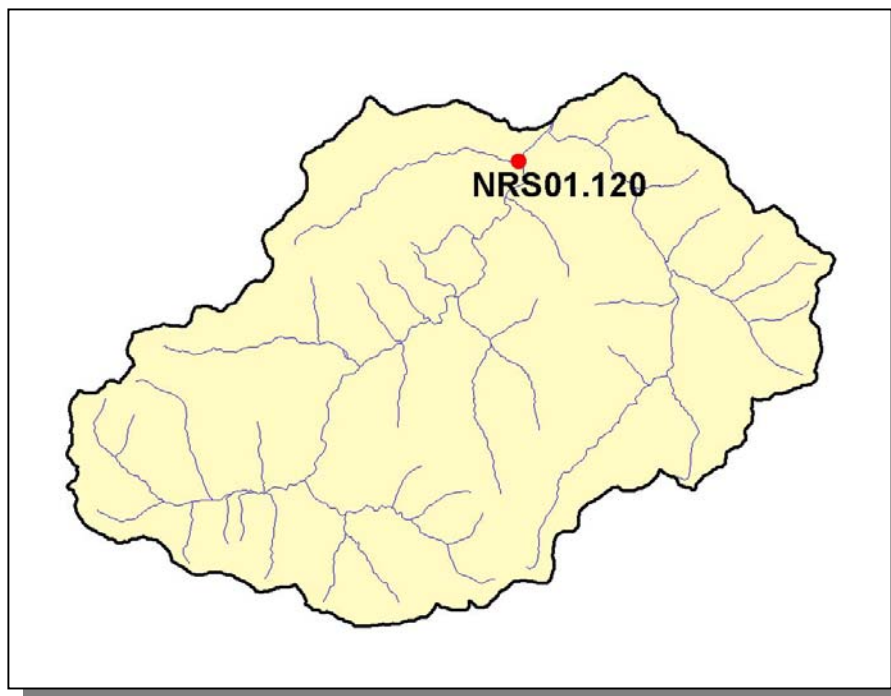


Figure 4-11. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301040101. More information is provided in Appendix IV.

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4.2.A.i.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
95	202	7	<5	455	0	<5

Table 4-4. Summary of Livestock Count Estimates in Subwatershed 051301040101. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Anderson	4,449	9,458	335		769		135
Campbell	4,083	7,684	66		8	14	
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-5. Summary of Livestock Count Estimates in Anderson, Campbell, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Anderson	124.0	124.0	2.6	6.0
Campbell	250.3	250.2	2.6	10.6
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-6. Forest Acreage and Annual Removal Rates (1987-1994) in Anderson, Campbell, Morgan, and Scott Counties.

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CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.37
Grass (Hayland)	0.75
Legumes (Hayland)	1.07
Legumes, Grass (Hayland)	3.18
Grass, Forbs, Legumes (Mixed Pasture)	1.60
Corn (Row Crops)	7.18
Tobacco (Row Crops)	1.63
Other Vegetable Truck Crops	12.05
Other Land in Farms	0.23
Farmsteads and Ranch Headquarters	1.00

Table 4-7. Annual Estimated Total Soil Loss in Subwatershed 051301040101.

4.2.A.ii. 051301040102 (New River).

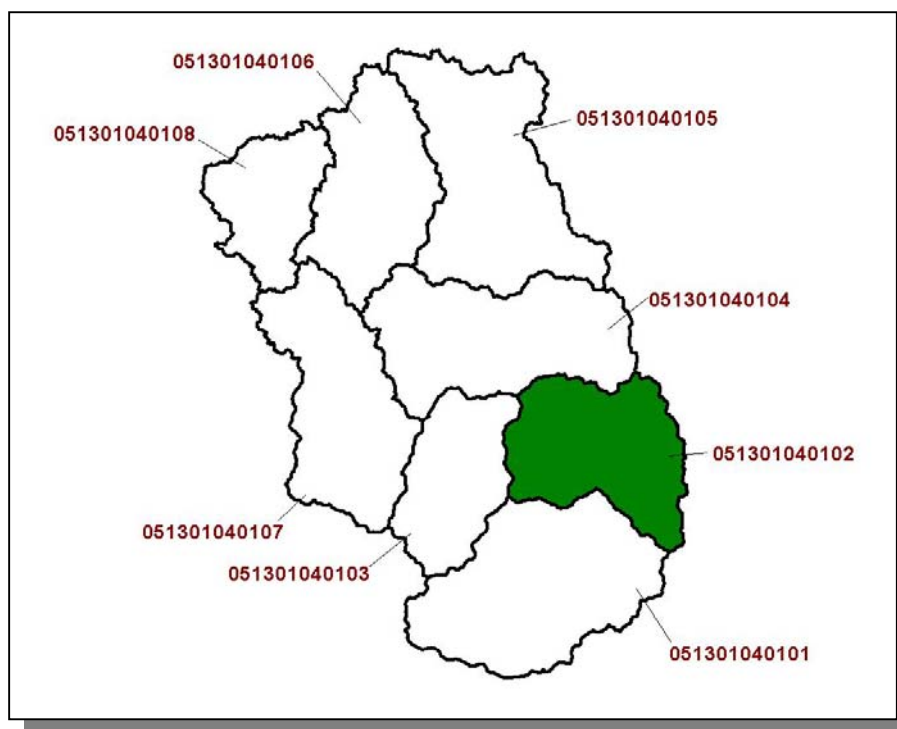


Figure 4-12. Location of Subwatershed 051301040102. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

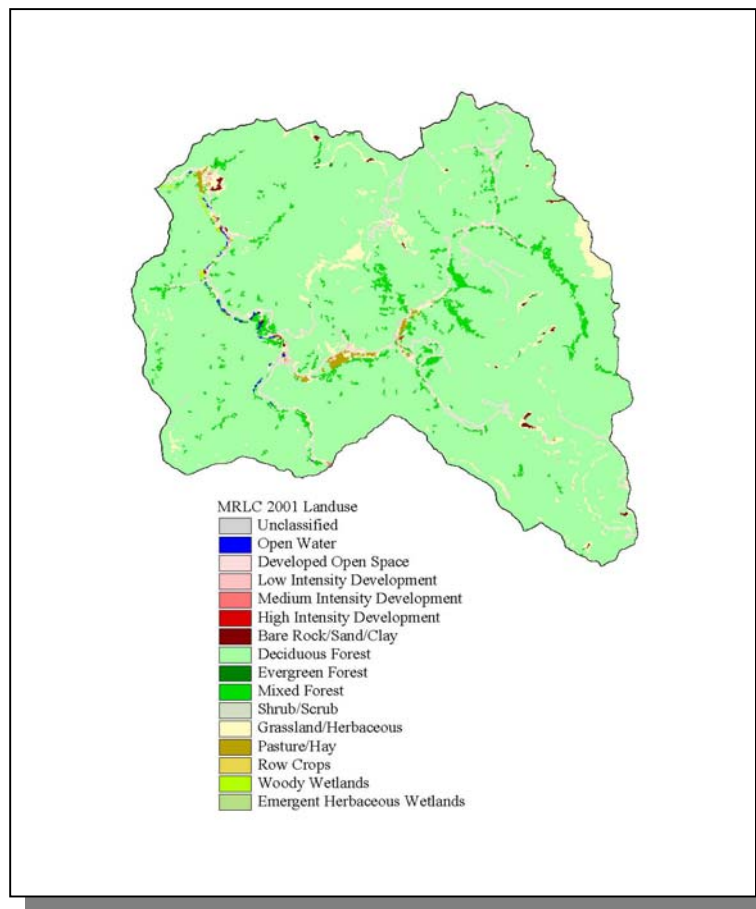


Figure 4-13. Illustration of Land Use Distribution in Subwatershed 051301040102.

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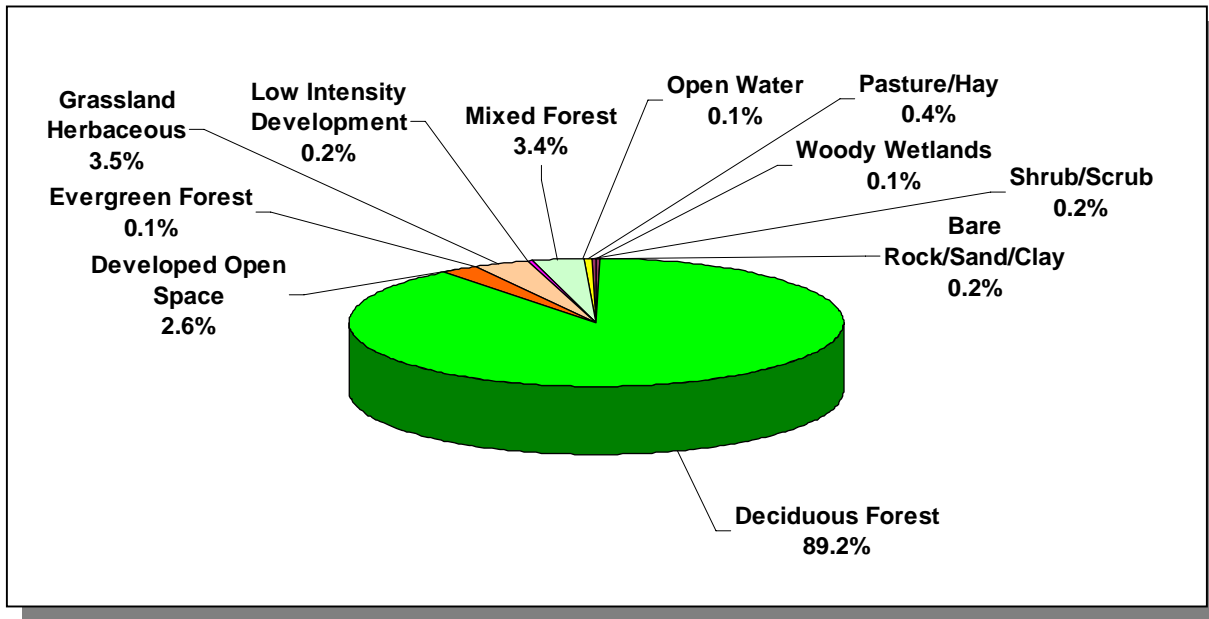


Figure 4-14. Land Use Distribution in Subwatershed 051301040102. More information is provided in Appendix IV.

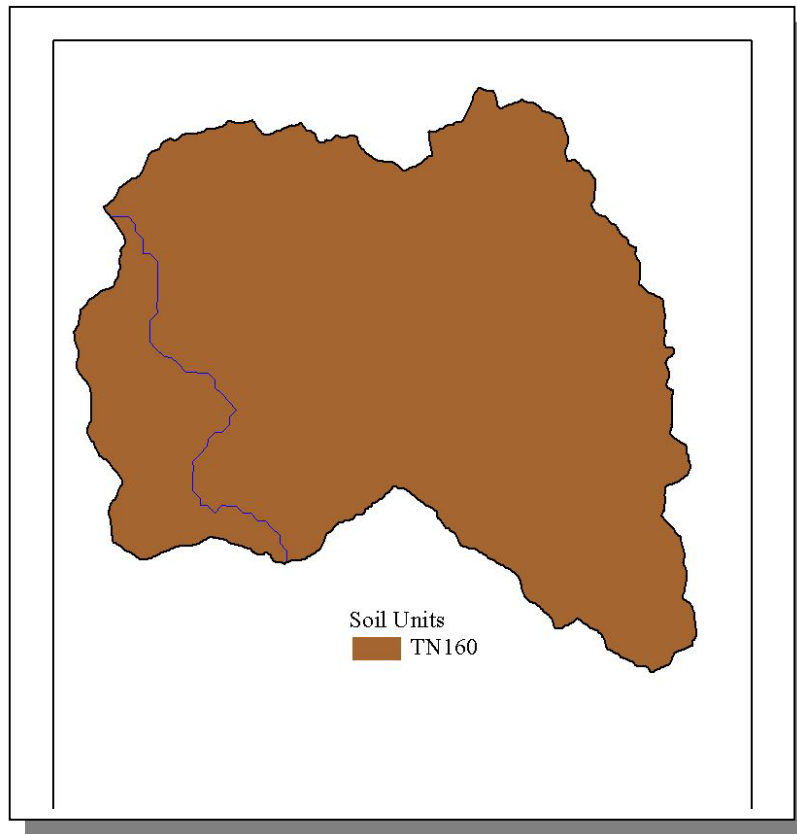


Figure 4-15. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040102.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-8. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040102. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Anderson	68,250	71,498	71,330	0.27	184	193	193	4.9
Campbell	35,079	37,878	39,854	8.50	2,981	3,219	3,386	13.6
Scott	18,358	19,816	21,127	0.62	114	123	131	14.9
Total	121,687	129,192	132,311		3,279	3,535	3,710	13.1

Table 4-9. Population Estimates in Subwatershed 051301040102.

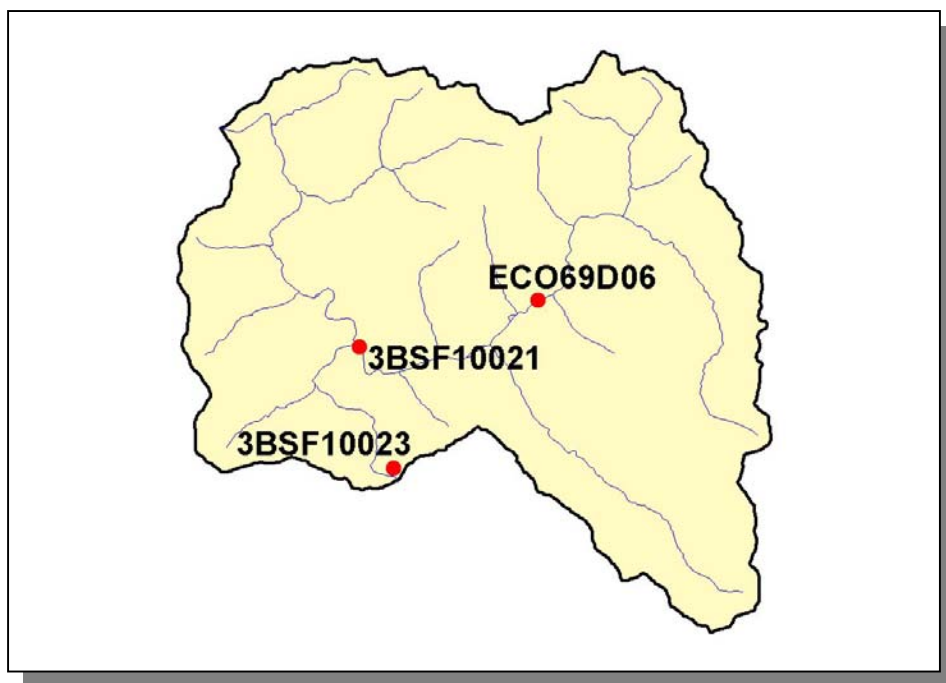


Figure 4-16. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040102. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.ii.a. Point Source Contributions.

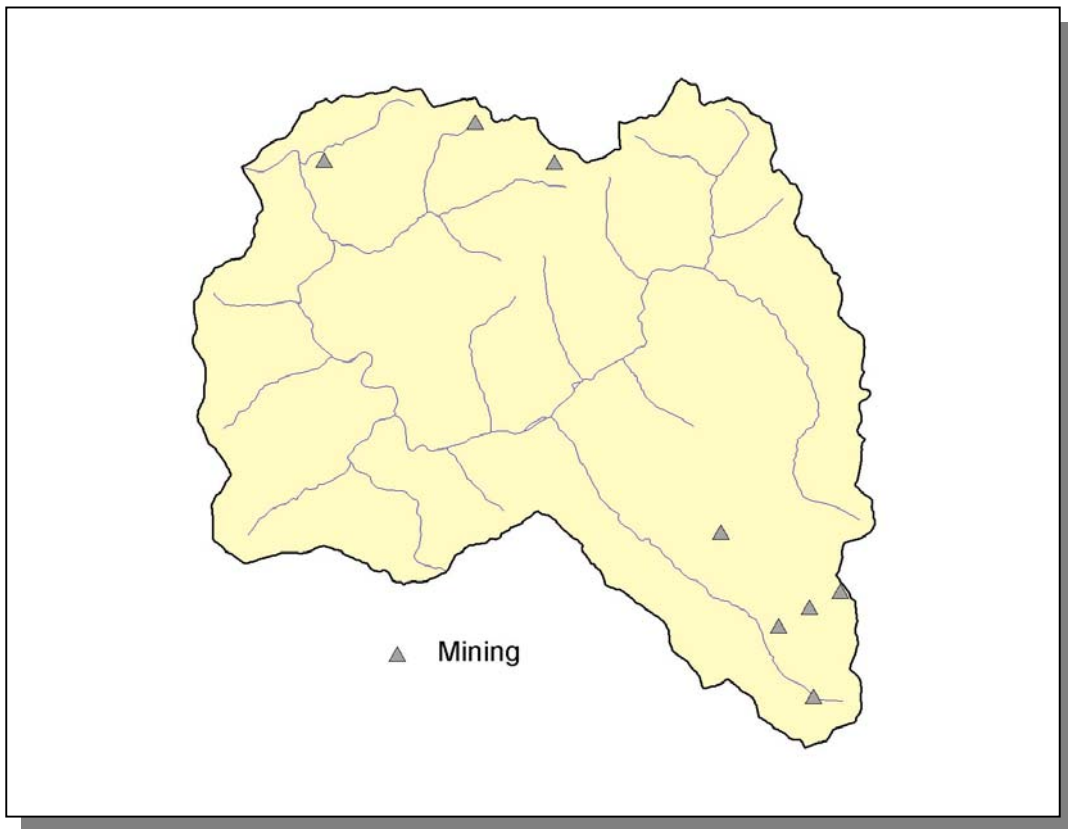


Figure 4-17. Location of Permits Issued in Subwatershed 051301040102. More information, including the names of facilities, is provided in Appendix IV.

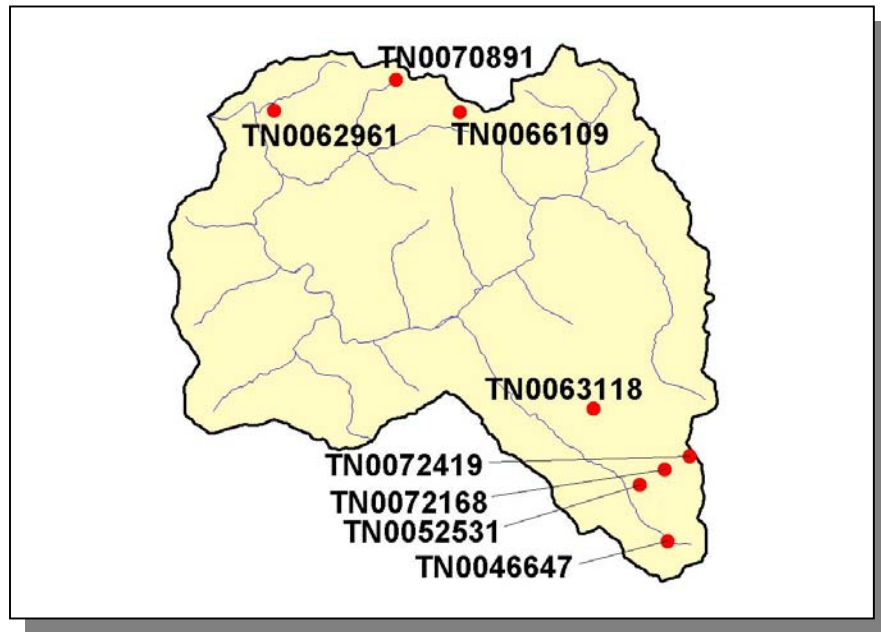


Figure 4-18. Location of Active Mining Sites in Subwatershed 051301040102. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS			
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)
69	131	<5	2,304

Table 4-10. Summary of Livestock Count Estimates in Subwatershed 051301040102. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Anderson	4,449	9,458	335		769		135
Campbell	4,083	7,684	66		8	14	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-11. Summary of Livestock Count Estimates in Anderson, Campbell, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Anderson	124.0	124.0	2.6	6.2
Campbell	250.3	250.2	2.6	10.6
Scott	300.3	300.3	5.5	21.4

Table 4-12. Forest Acreage and Annual Removal Rates (1987-1994) in Anderson, Campbell, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.63
Grass (Hayland)	1.76
Legumes, Grass (Hayland)	0.50
Legumes (Hayland)	1.07
Grass, Forbs, Legumes (Mixed Pasture)	2.56
Tobacco (Row Crops)	14.82
Other Vegetable and Truck Crops	3.52
Non-Agricultural Land Use	0
Other Land in Farms	0.23
Farmsteads and Ranch Headquarters	0.09

Table 4-13. Annual Estimated Total Soil Loss in Subwatershed 051301040102.

4.2.A.iii. 051301040103 (Smokey Creek).

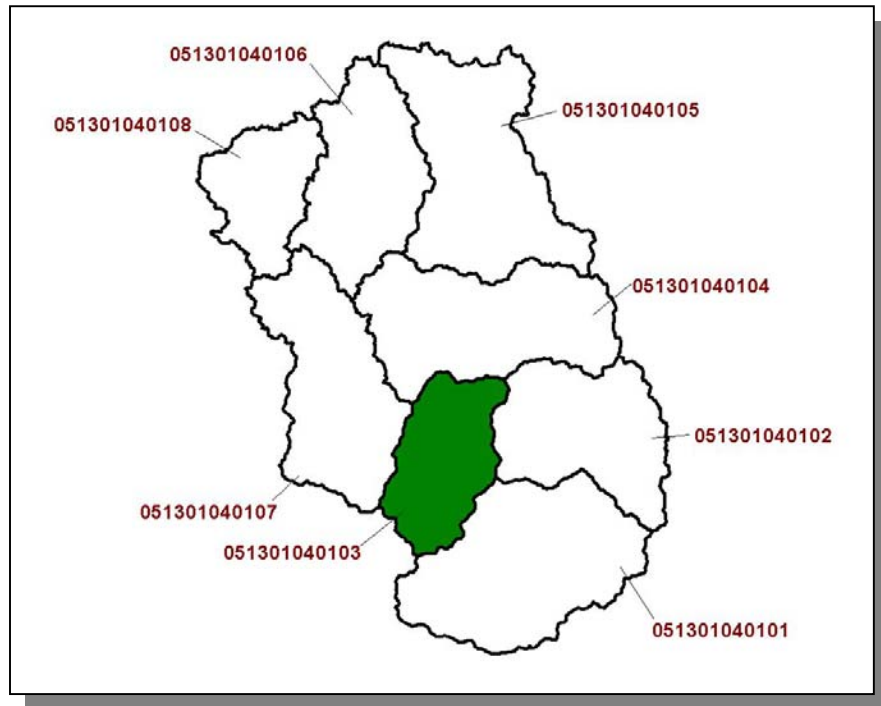


Figure 4-19. Location of Subwatershed 051301040103. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

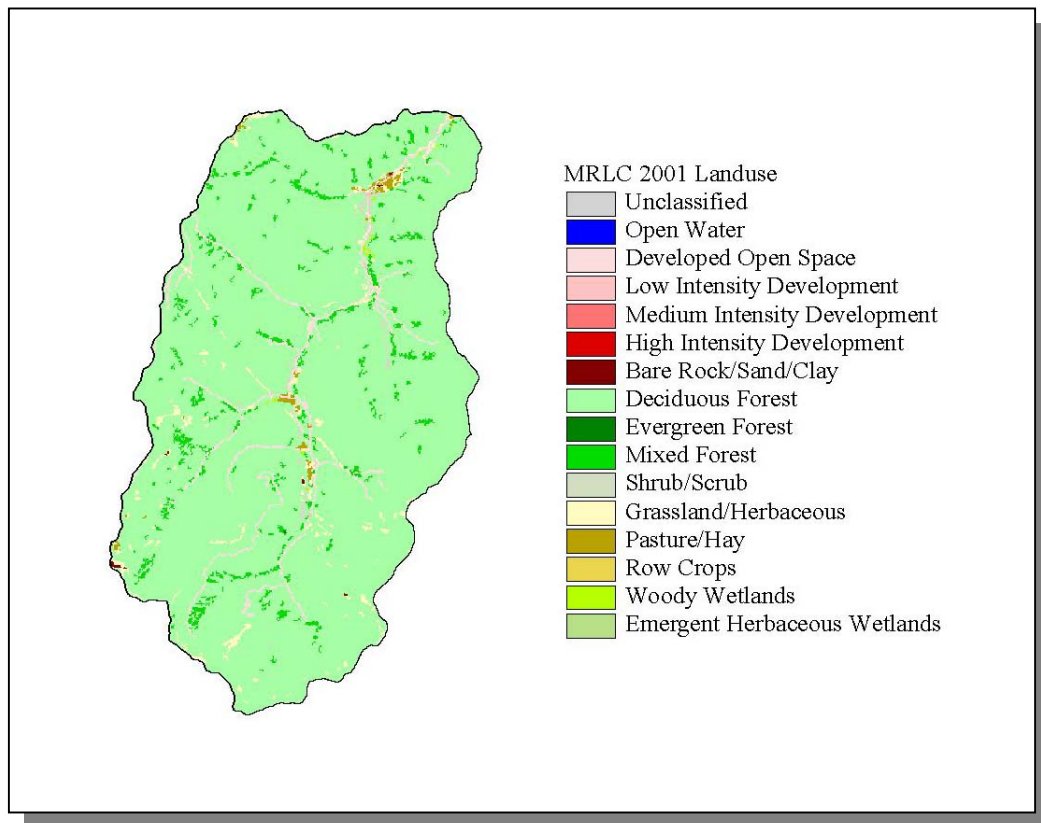


Figure 4-20. Illustration of Land Use Distribution in Subwatershed 051301040103.

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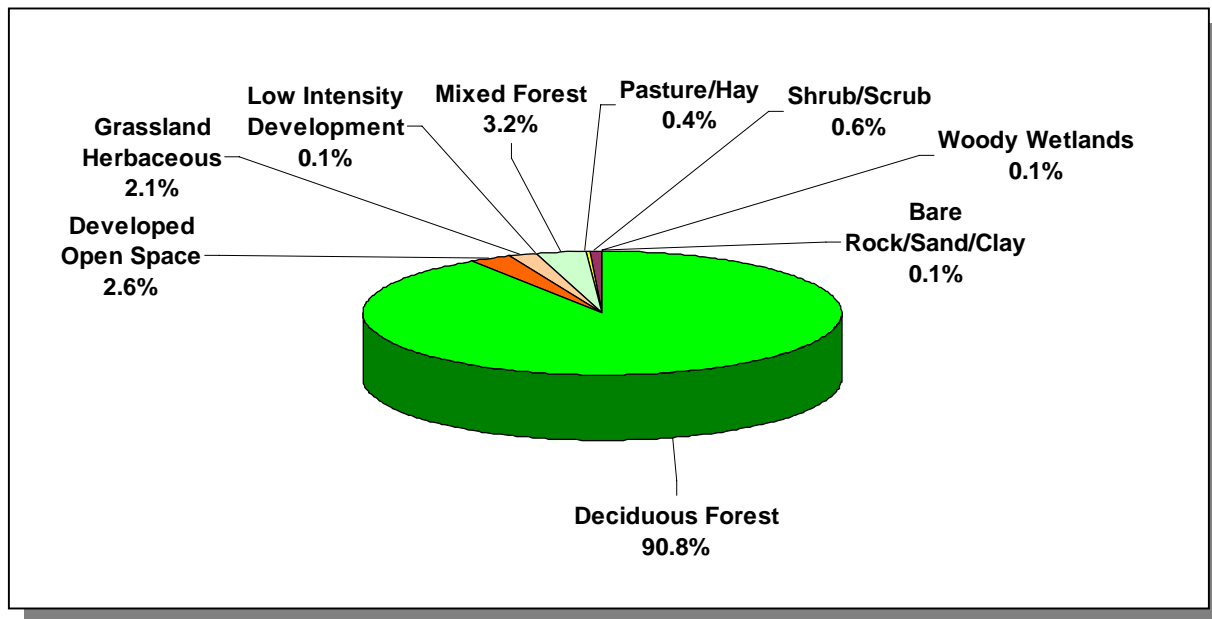


Figure 4-21. Land Use Distribution in Subwatershed 051301040103. More information is provided in Appendix IV.

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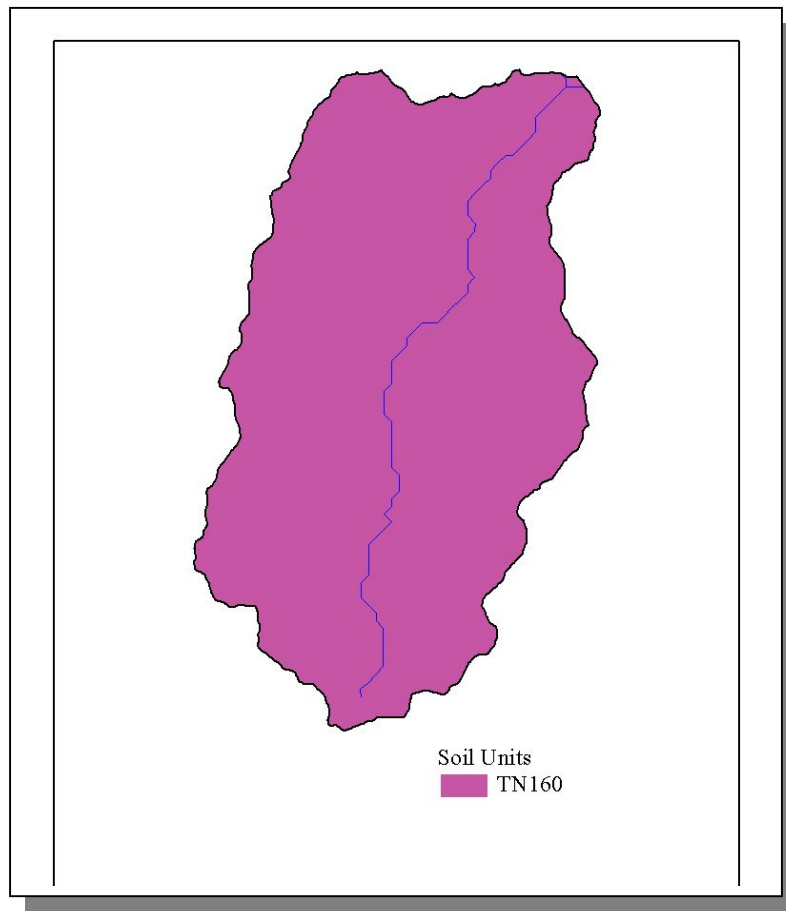


Figure 4-22. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040103.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-14. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040103. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Anderson	68,250	71,498	71,330	0.36	247	259	258	4.5
Campbell	35,079	37,878	39,854	0.01	4	4	5	25.0
Morgan	17,300	18,521	19,757	0.09	16	17	18	12.5
Scott	18,358	19,816	21,127	5.86	1,076	1,161	1,238	15.1
Total	138,987	147,713	152,068		1,343	1,441	1,519	13.1

Table 4-15. Population Estimates in Subwatershed 051301040103.

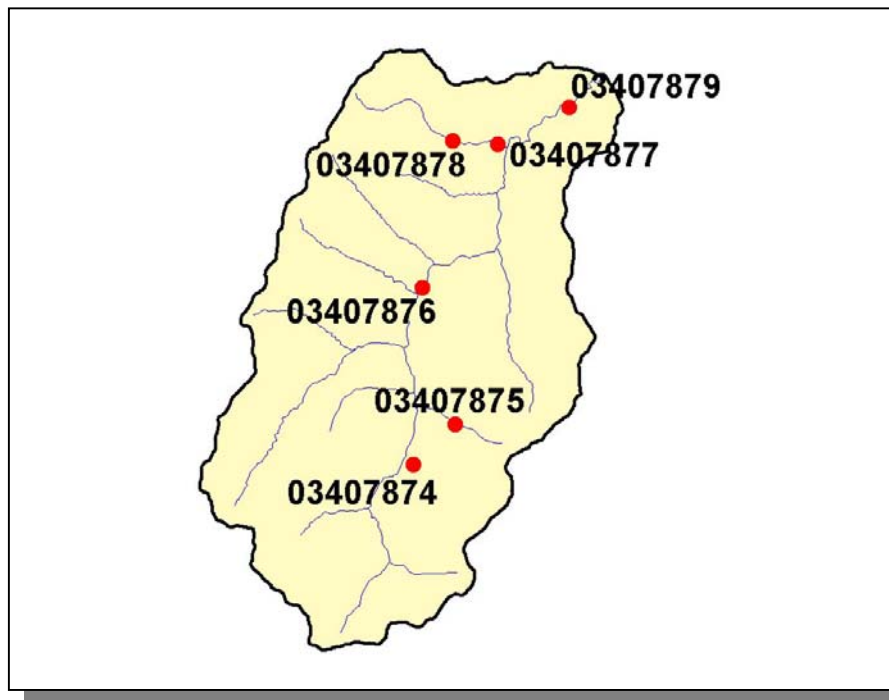


Figure 4-23. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040103. More information is provided in Appendix IV.

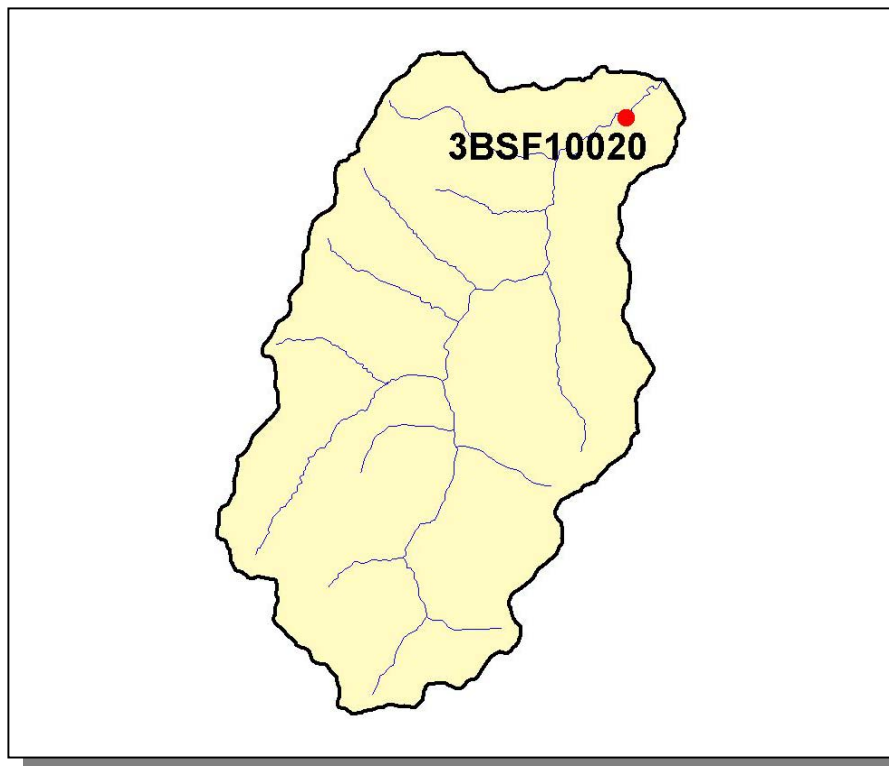


Figure 4-24. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040103. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.iii.a. Point Source Contributions.

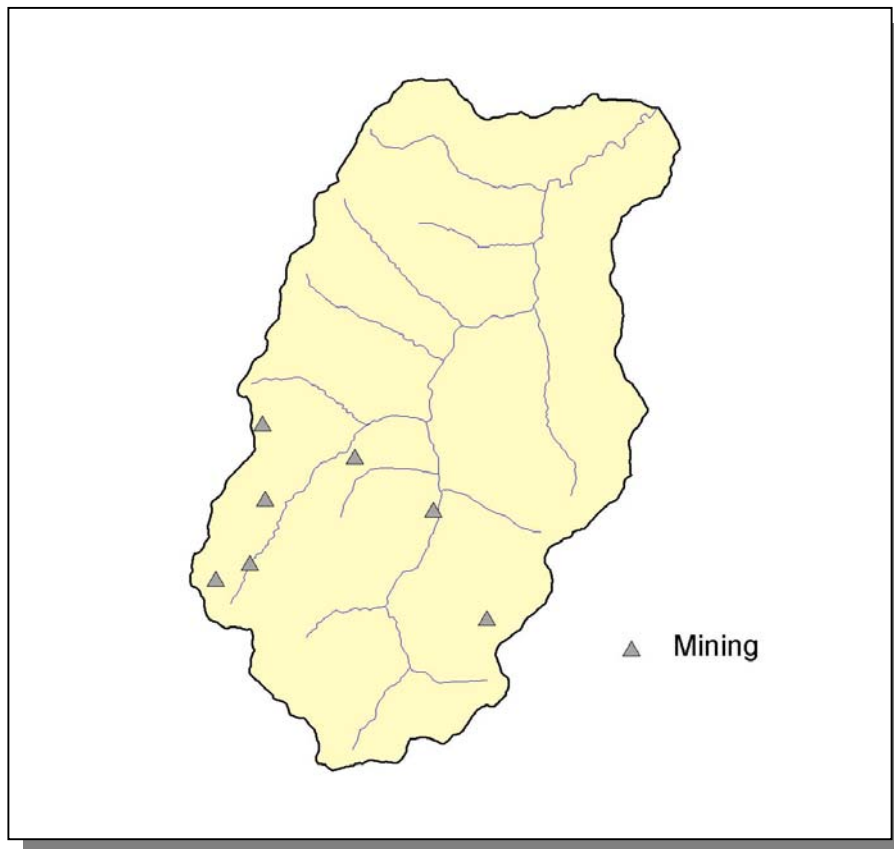


Figure 4-25. Location of Permits Issued in Subwatershed 051301040103. More information, including the names of facilities, is provided in Appendix IV.

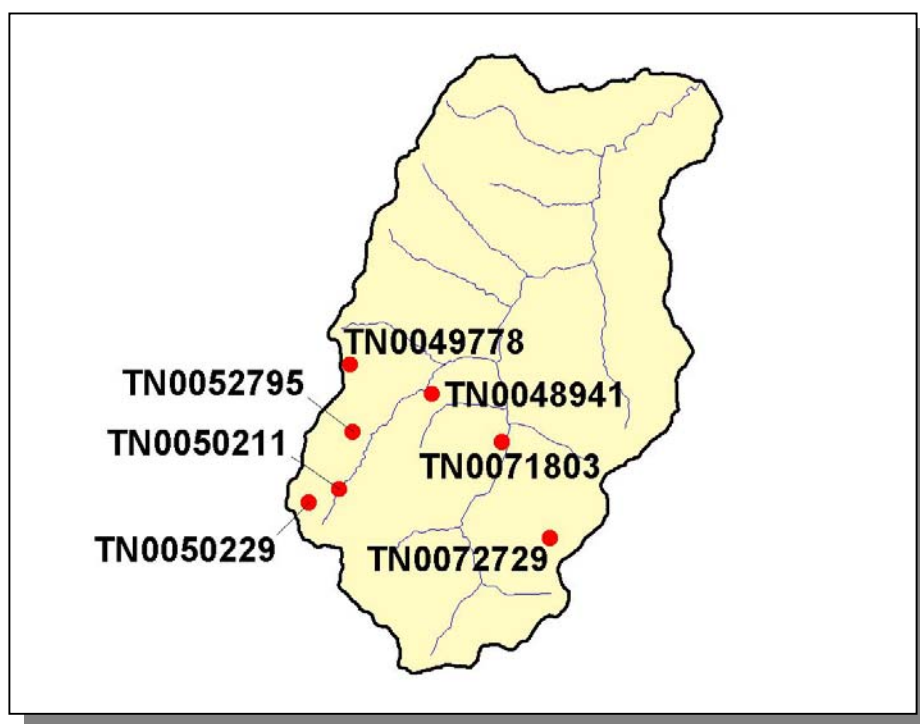


Figure 4-26. Location of Active Mining Sites in Subwatershed 051301040103. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.iii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Sheep
26	53	<5	22,092	<5

Table 4-16. Summary of Livestock Count Estimates in Subwatershed 051301040103. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Anderson	4,449	9,458	335		769		135
Campbell	4,083	7,684	66		8	14	
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-17. Summary of Livestock Count Estimates in Anderson, Campbell, Morgan, and Scott Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Anderson	124.0	124.0	2.6	6.2
Campbell	250.3	250.2	2.6	10.6
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-18. Forest Acreage and Annual Removal Rates (1987-1994) in Anderson, Campbell, Morgan, and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.37
Grass (Hayland)	0.79
Legumes (Hayland)	1.07
Legumes, Grass (Hayland)	2.41
Grass, Forbs, Legumes (Mixed Pasture)	0.62
Corn (Row Crops)	7.18
Tobacco (Row Crops)	2.23
Other Vegetable and Truck Crops	11.67
Other Land in Farms	0.23
Farmsteads and Ranch Headquarters	0.12

Table 4-19. Annual Estimated Total Soil Loss in Subwatershed 051301040103.

4.2.A.iv. 051301040104 (New River).

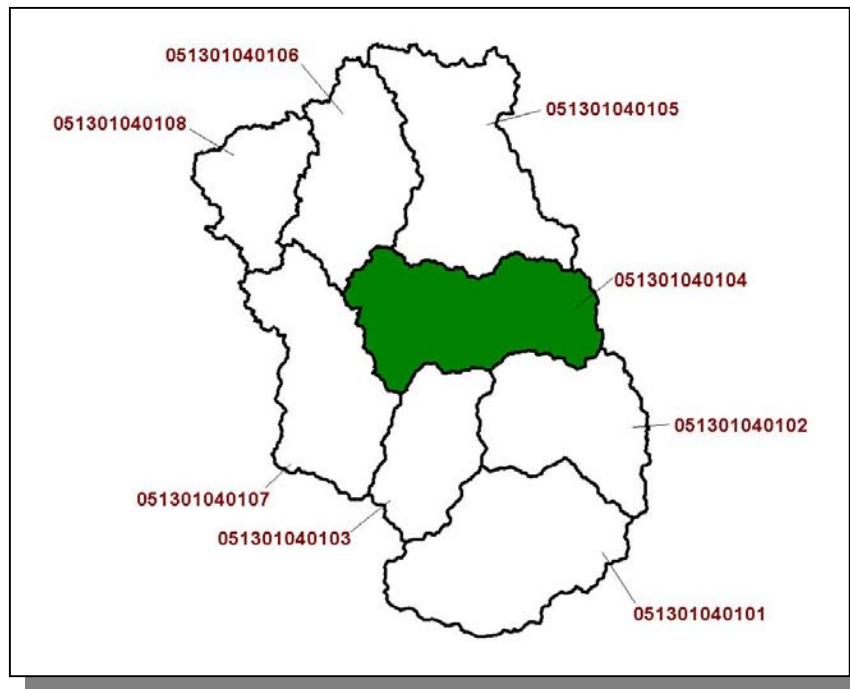


Figure 4-27. Location of Subwatershed 051301040104. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

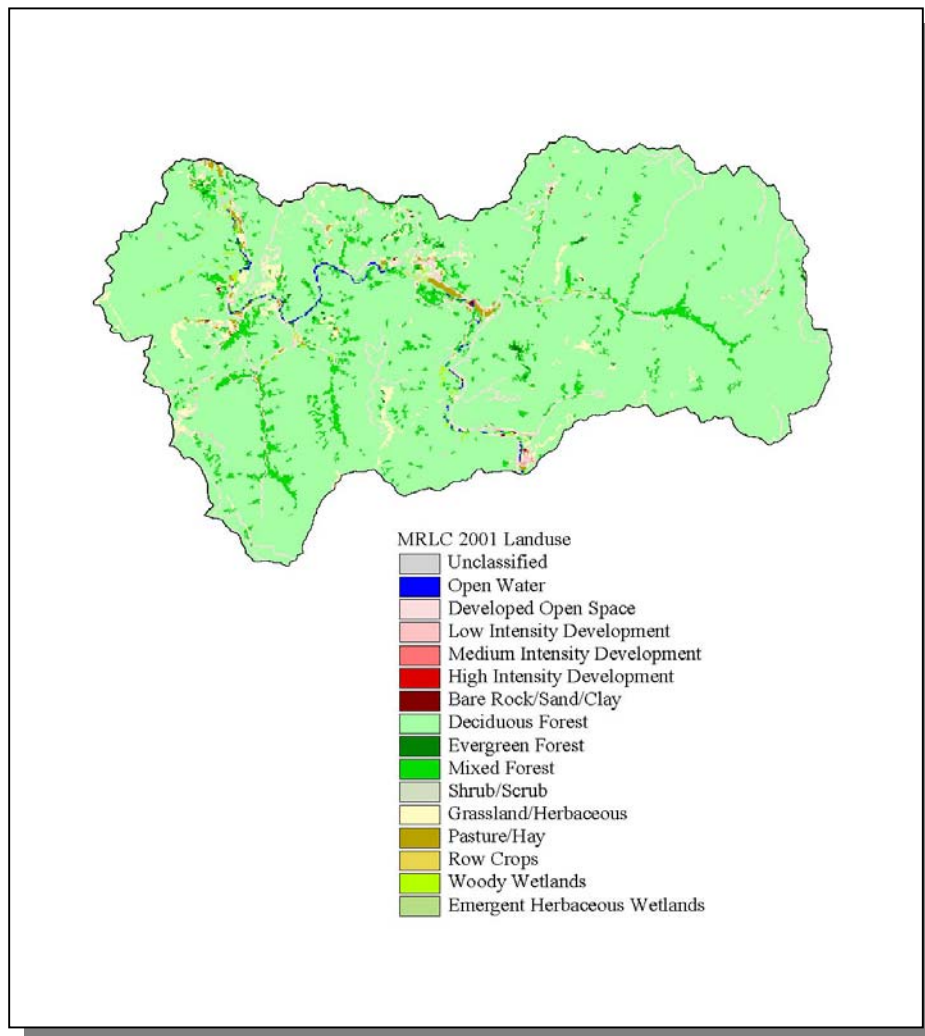


Figure 4-28. Illustration of Land Use Distribution in Subwatershed 051301040104.

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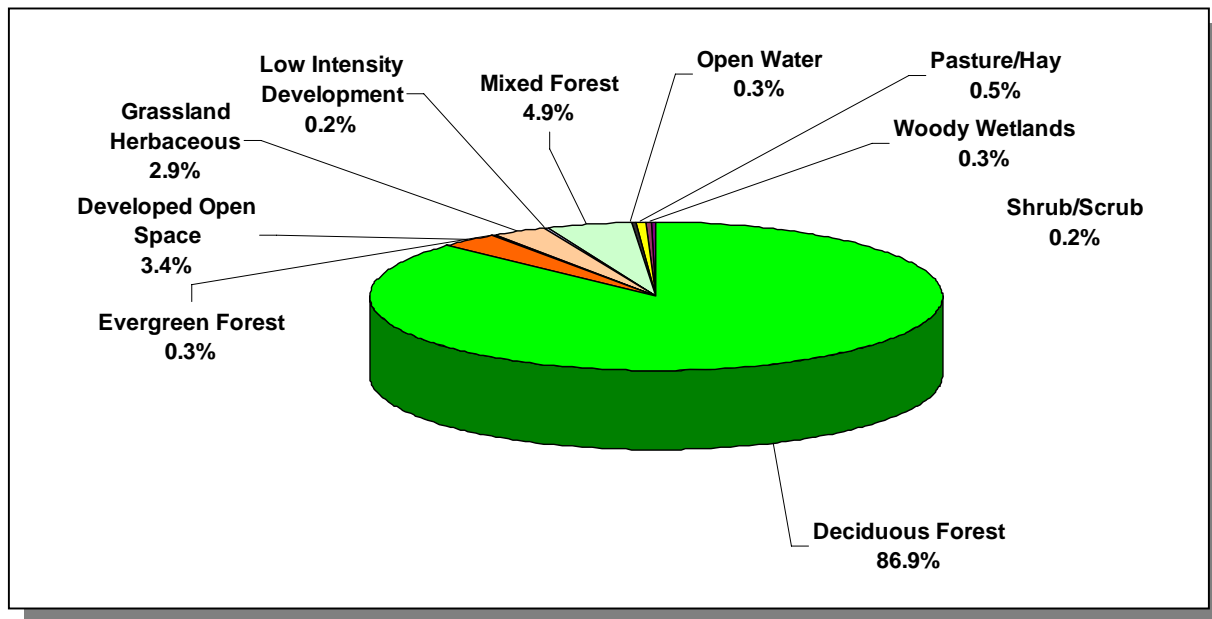


Figure 4-29. Land Use Distribution in Subwatershed 051301040104. More information is provided in Appendix IV.

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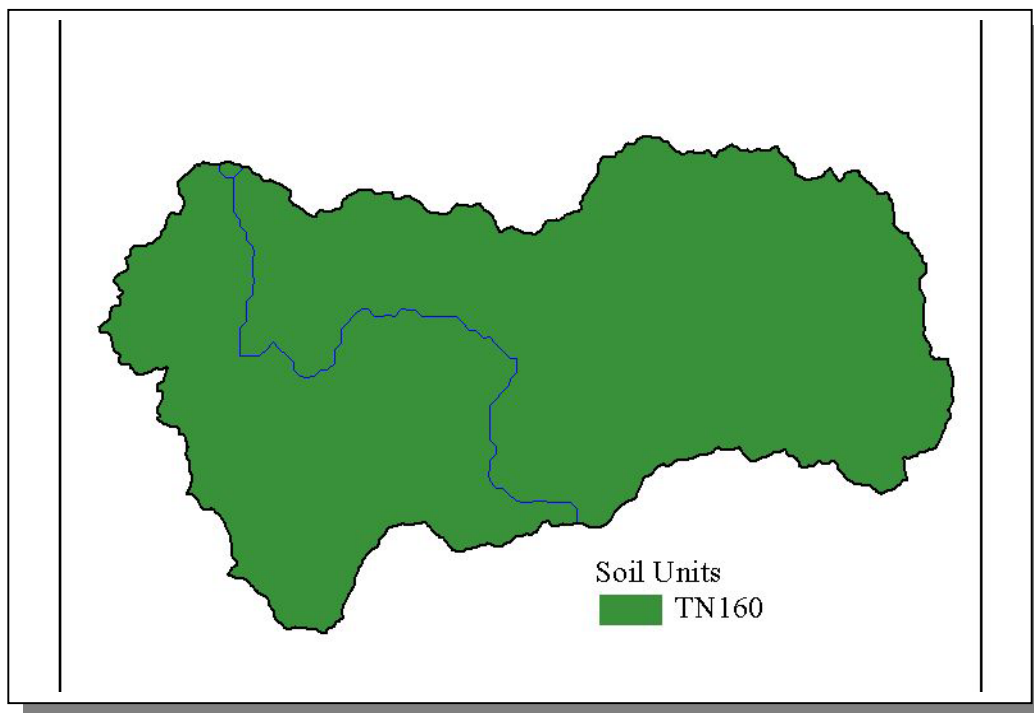


Figure 4-30. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040104.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-20. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040104. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Campbell	35,079	37,878	39,854	2.88	1,011	1,091	1,148	13.6
Scott	18,358	19,816	21,127	8.24	1,512	1,632	1,740	15.1
Total	53,437	57,694	60,981		2,523	2,723	2,888	14.5

Table 4-21. Population Estimates in Subwatershed 051301040104.

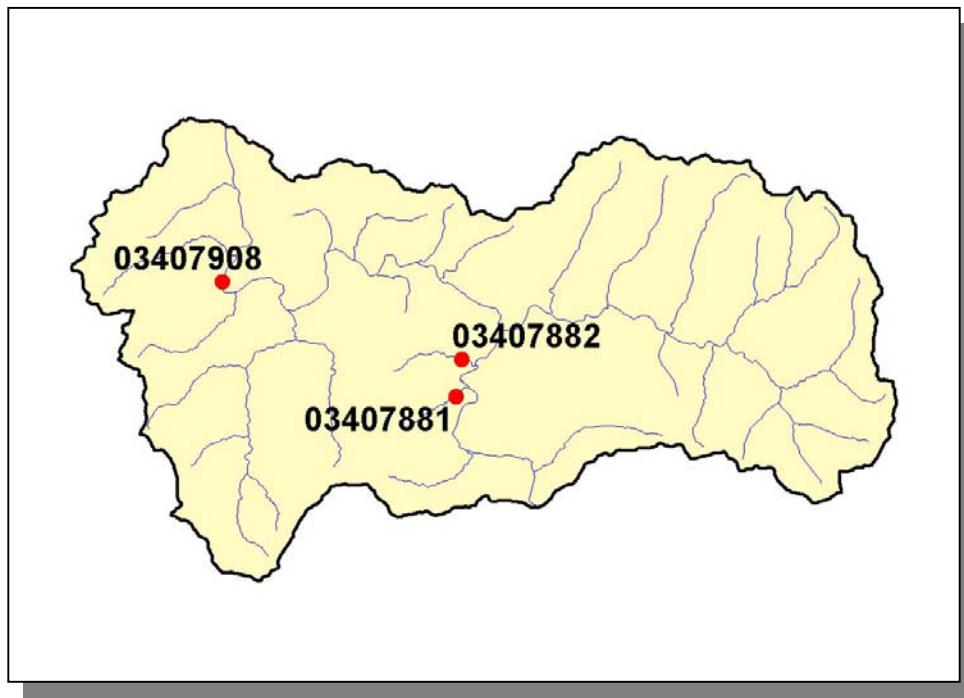


Figure 4-31. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040104. More information is provided in Appendix IV.

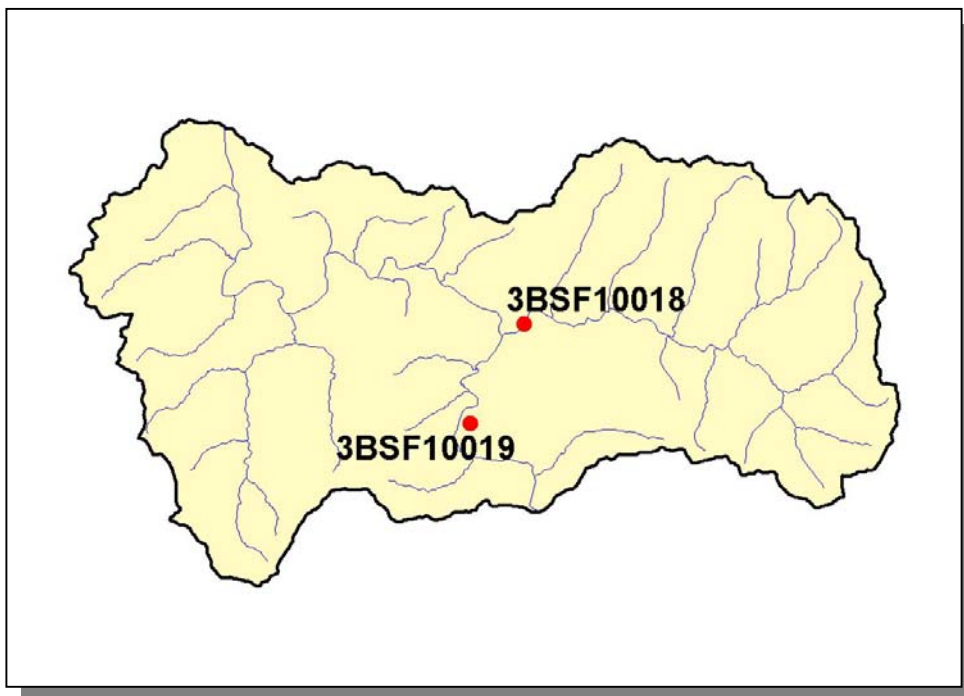


Figure 4-32. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040104. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.iv.a. Point Source Contributions.

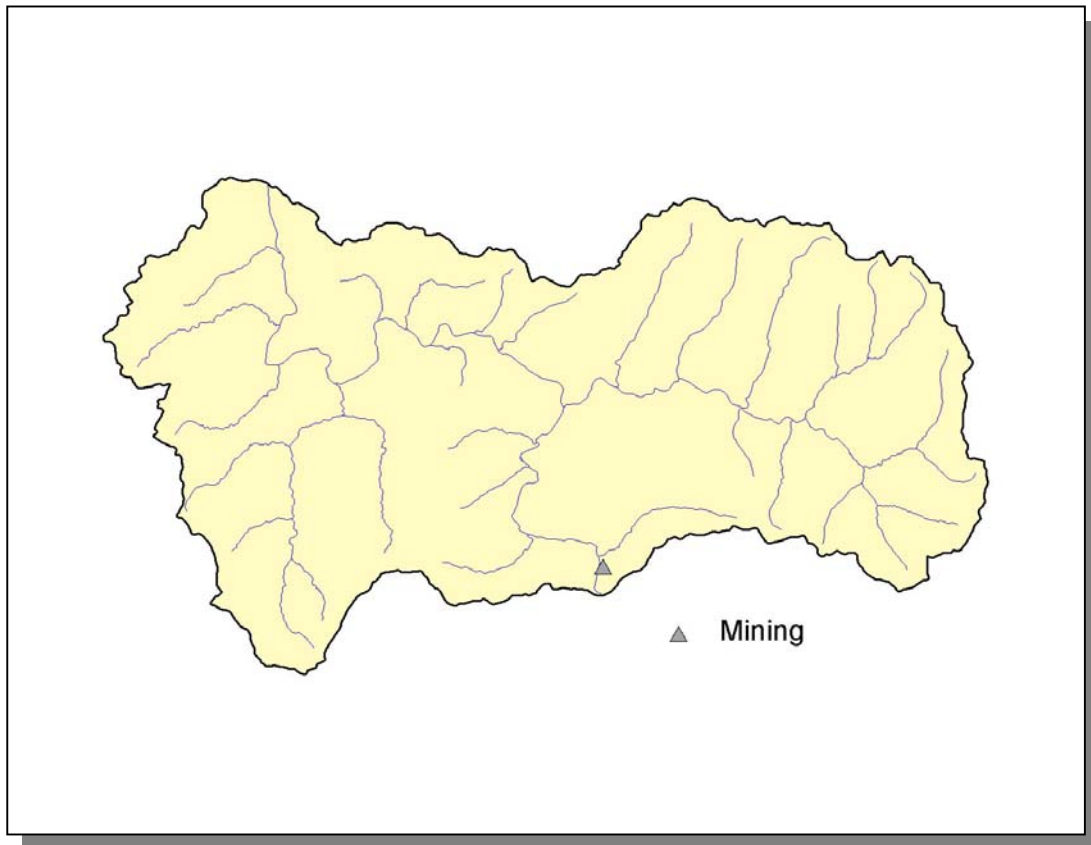


Figure 4-33. Location of Permits Issued in Subwatershed 051301040104. More information, including the names of facilities, is provided in Appendix IV.

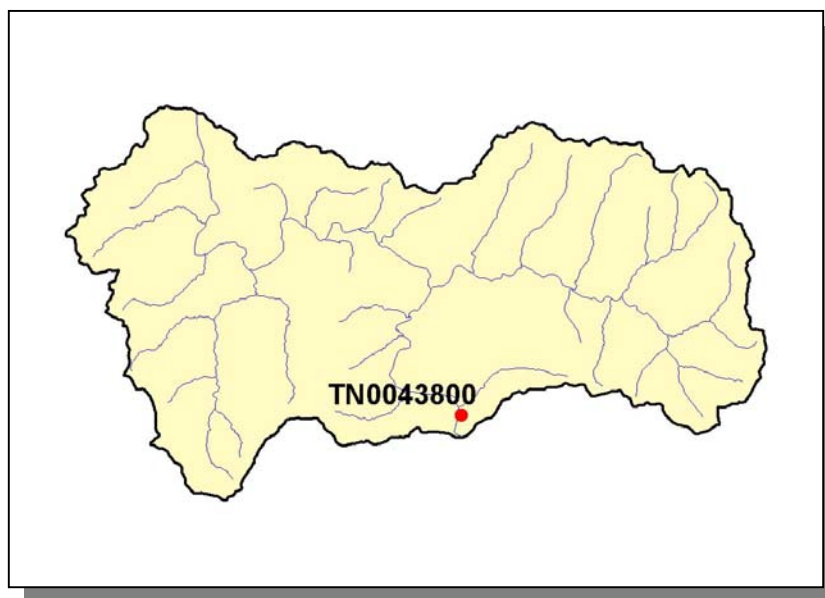


Figure 4-34. Location of Active Mining Sites in Subwatershed 051301040104. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.iv.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Sheep
53	107	<5	38,986	<5

Table 4-22. Summary of Livestock Count Estimates in Subwatershed 051301040104.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Campbell	4,083	7,684	66		8	14	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-23. Summary of Livestock Count Estimates in Campbell and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Campbell	250.3	250.2	2.6	10.6
Scott	300.3	300.3	5.5	21.4

Table 4-24. Forest Acreage and Annual Removal Rates (1987-1994) in Campbell and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	1.78
Legumes, Grass (Hayland)	0.44
Grass, Forbs, Legumes (Mixed Pasture)	1.1
Tobacco (Row Crops)	15.11
Other Vegetable Truck Crops	3.33
Farmsteads and Ranch Headquarters	0.08

Table 4-25. Annual Estimated Total Soil Loss in Subwatershed 051301040104.

4.2.A.v. 051301040105 (Buffalo Creek).

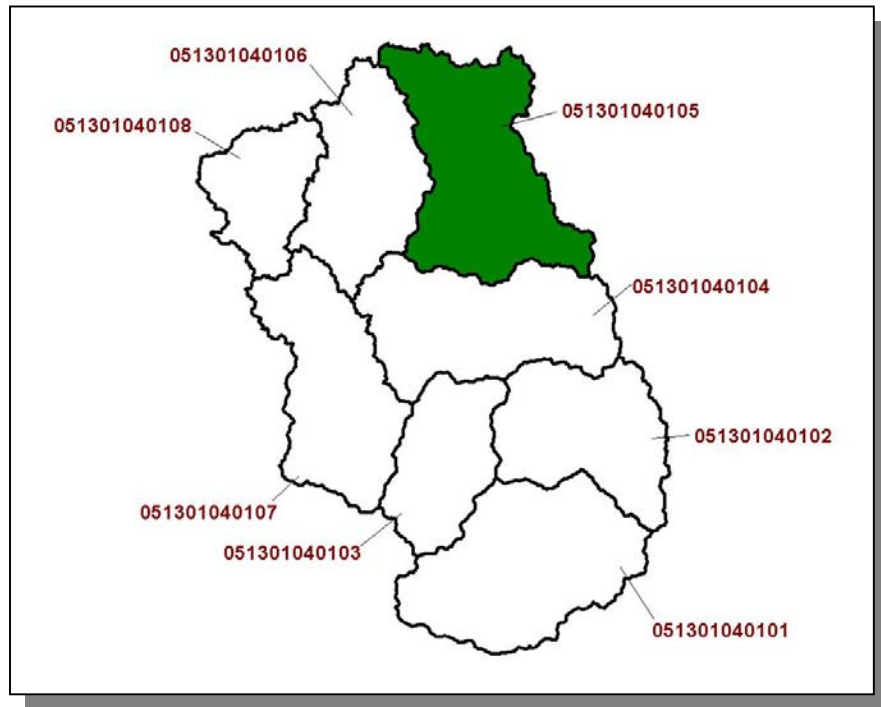


Figure 4-35. Location of Subwatershed 051301040105. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

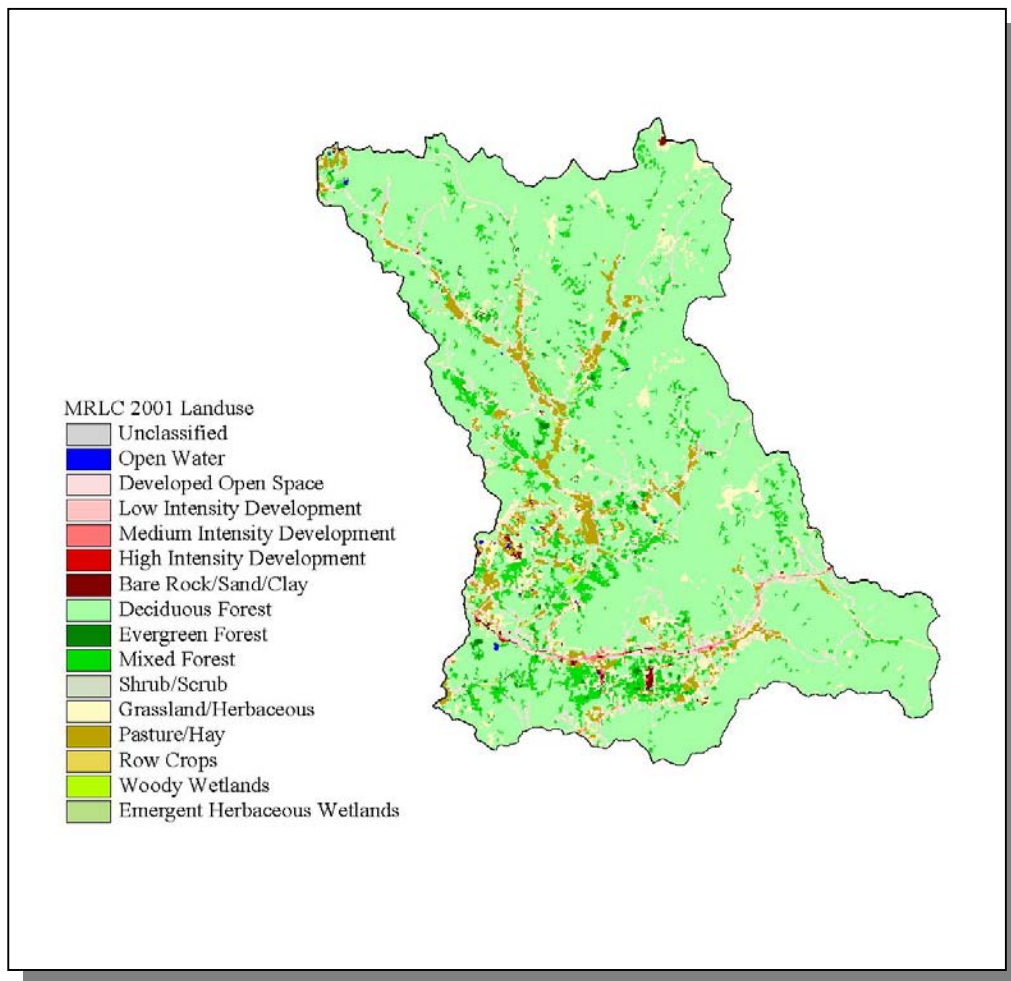


Figure 4-36. Illustration of Land Use Distribution in Subwatershed 051301040105.

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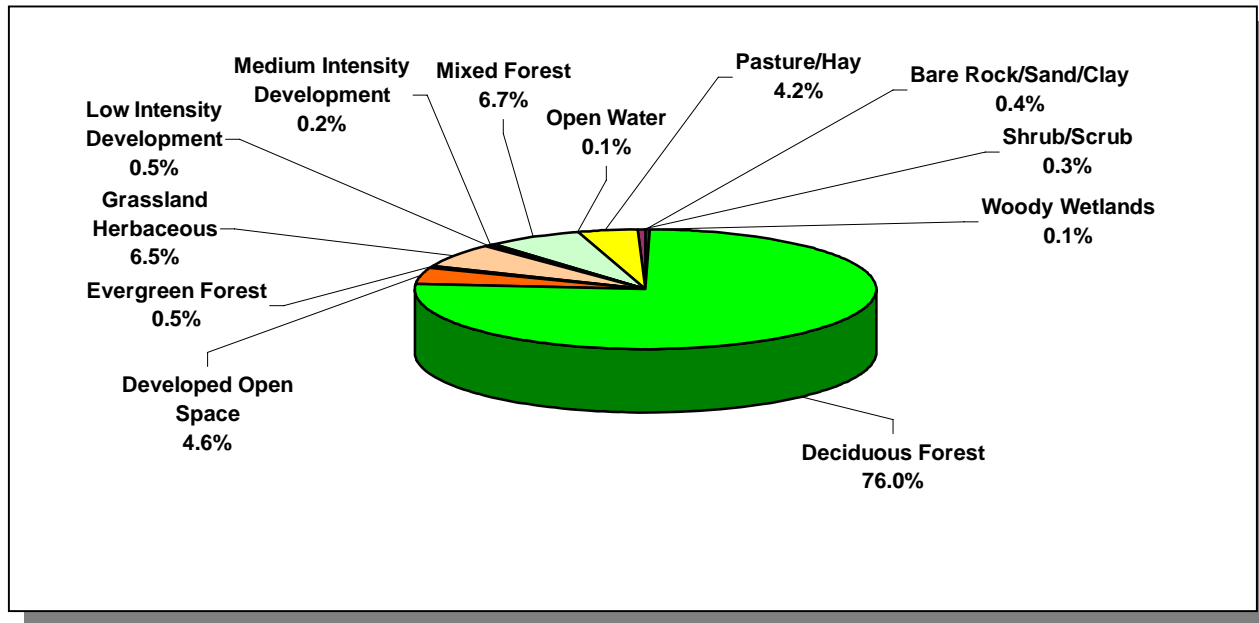


Figure 4-37. Land Use Distribution in Subwatershed 051301040102. More information is provided in Appendix IV.

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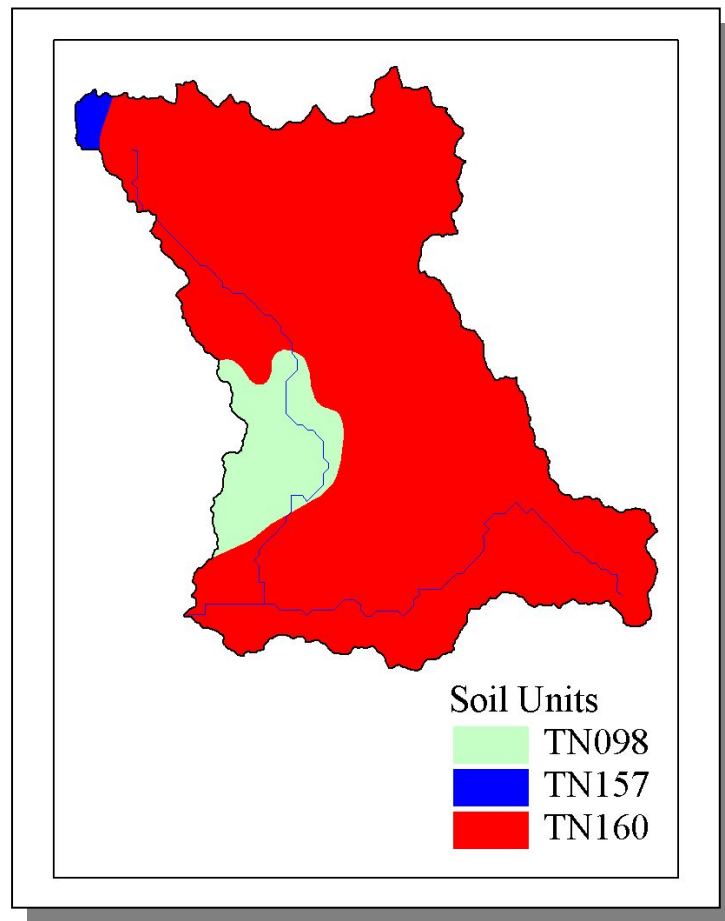


Figure 4-38. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040105.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN157	0.00	B	2.38	4.62	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-26. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040105. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Campbell	35,079	37,878	39,854	1.1	386	417	439	13.7
Scott	18,358	19,816	21,127	10.97	2,014	2,174	2,318	15.1
Total	53,437	57,694	60,981		2,400	2,591	2,757	14.9

Table 4-27. Population Estimates in Subwatershed 051301040105.

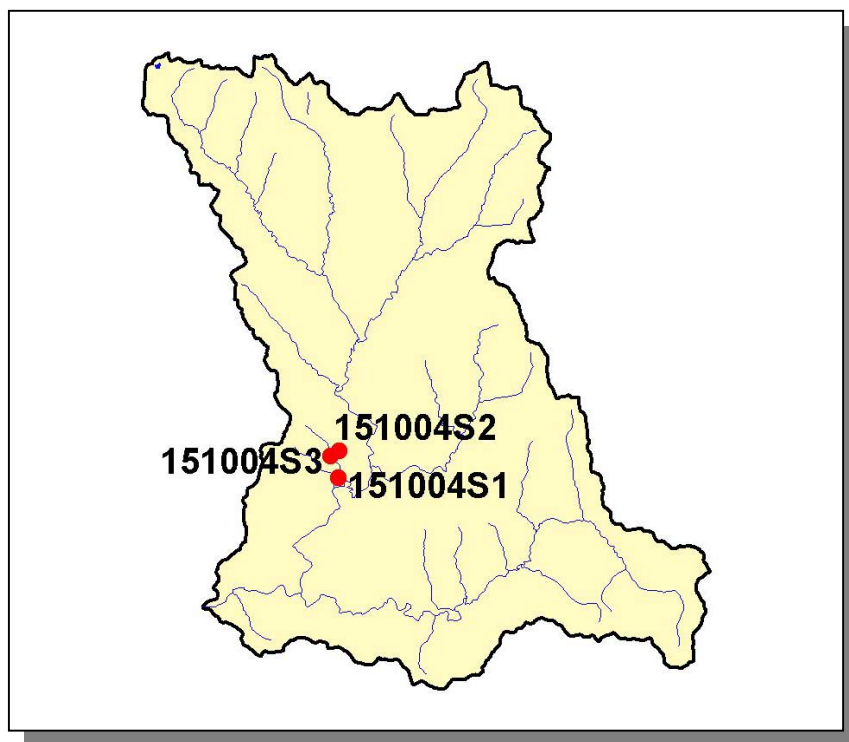


Figure 4-39. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040105. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.v.a. Point Source Contributions.

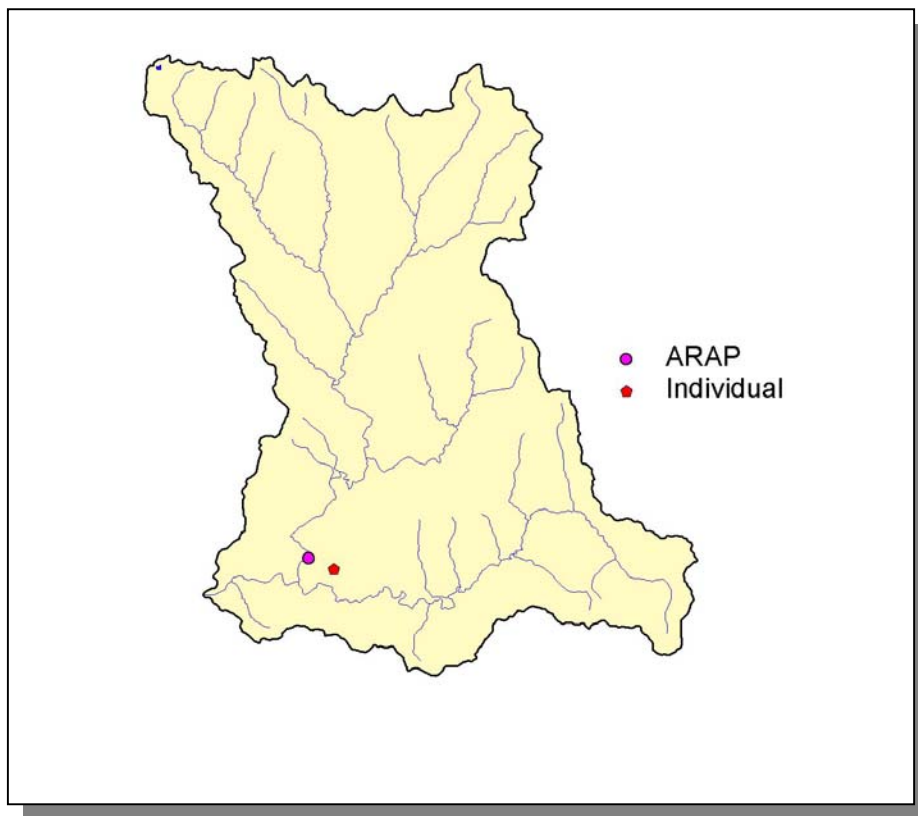


Figure 4-40. Location of Permits Issued in Subwatershed 051301040105. More information, including the names of facilities, is provided in Appendix IV.

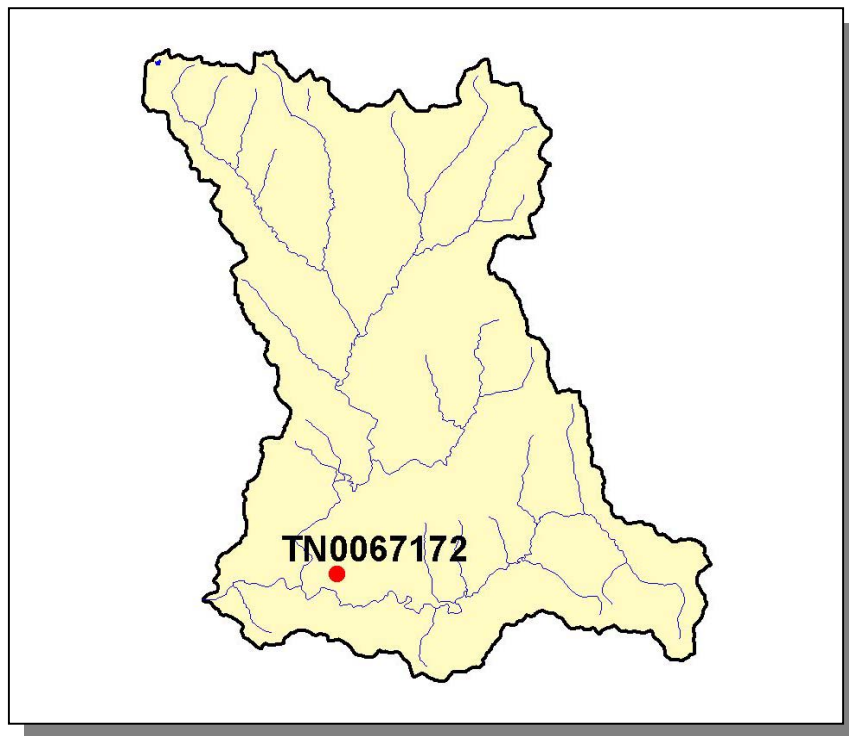


Figure 4-41. Location of Active NPDES Sites in Subwatershed 051301040105. More information, including the names of facilities, is provided in Appendix IV.

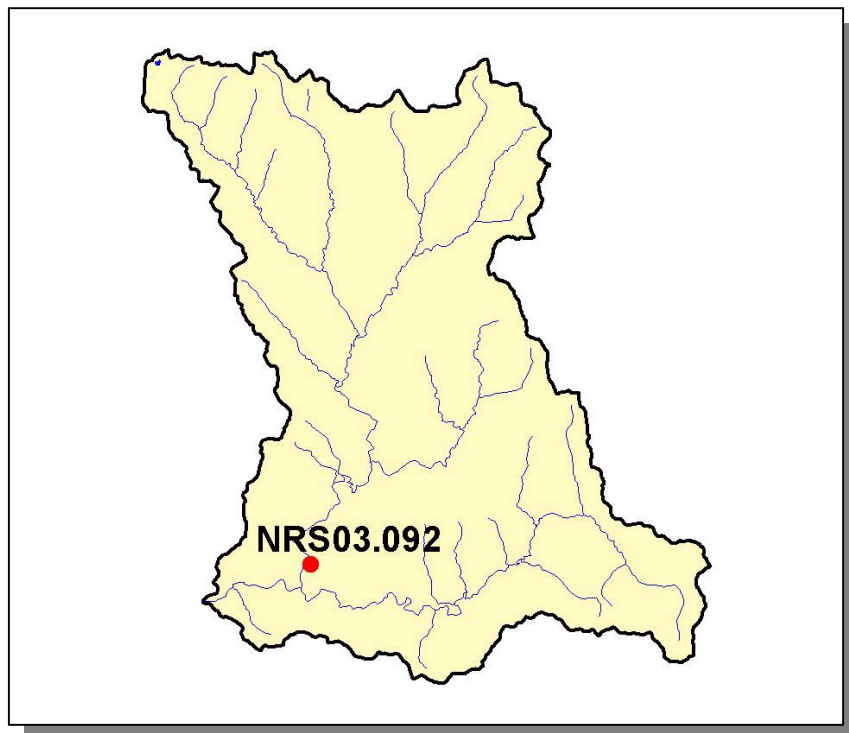


Figure 4-42. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301040105. More information is provided in Appendix IV.

4.2.v.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051301040105:

- TN0067172 (Fairview Elementary School) discharges to an unnamed tributary @ RM 0.5 to Straight Fork @ RM 2.0

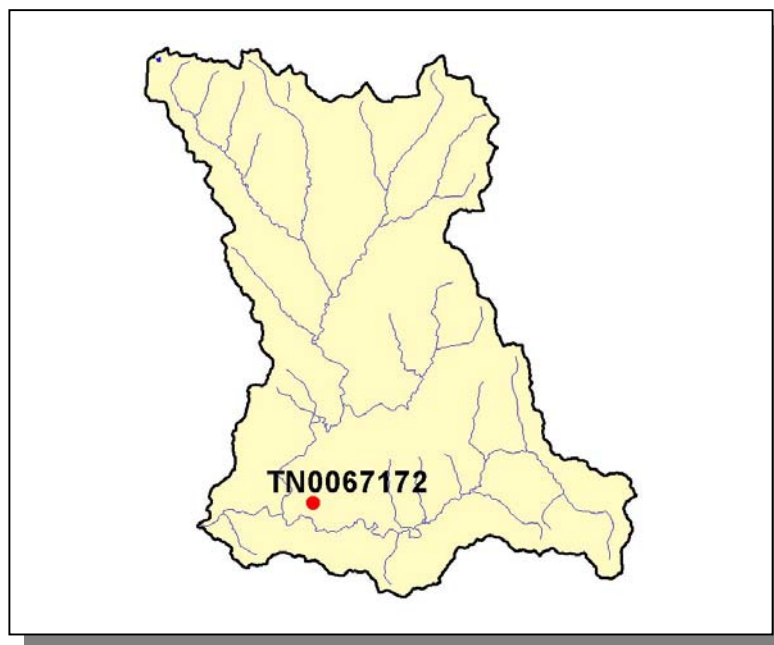


Figure 4-43. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051301040105. More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0067172			0		

Table 4-28. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040105. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	CBOD ₅	<i>E.coli</i>	FECAL COLIFORM	NH ₃	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0067172	X	X	X	X	X	X	X	X	X

Table 4-29. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051301040105. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

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4.2.A.v.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
282	576	27	<5	251,615	<5	9

Table 4-30. Summary of Livestock Count Estimates in Subwatershed 051301040105.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Campbell	4,083	7,684	66		8	14	
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-31. Summary of Livestock Count Estimates in Campbell and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Campbell	250.3	250.2	2.6	10.6
Scott	300.3	300.3	5.5	21.4

Table 4-32. Forest Acreage and Annual Removal Rates (1987-1994) in Campbell and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.44
Grass (Hayland)	1.78
Legumes, Grass (Hayland)	0.44
Grass, Forbs, Legumes (Mixed Pasture)	0.76
Tobacco (Row Crops)	15.11
Other Vegetable and Truck Crop	3.33
Farmsteads and Ranch Headquarters	0.09

Table 4-33. Annual Estimated Total Soil Loss in Subwatershed 051301040105.

4.2.A.vi. 051301040106 (New River).

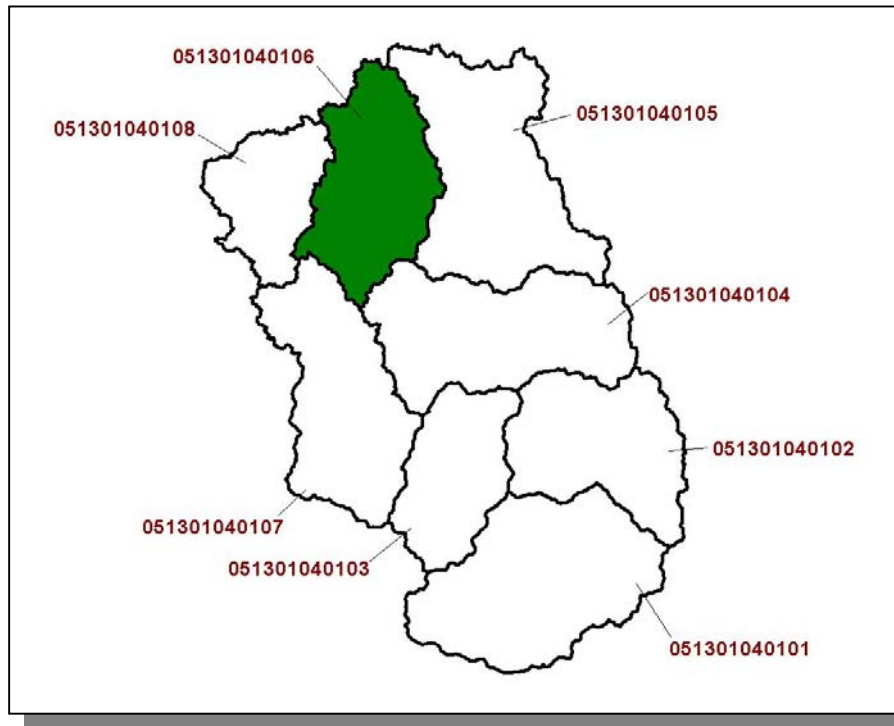


Figure 4-44. Location of Subwatershed 051301040106. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

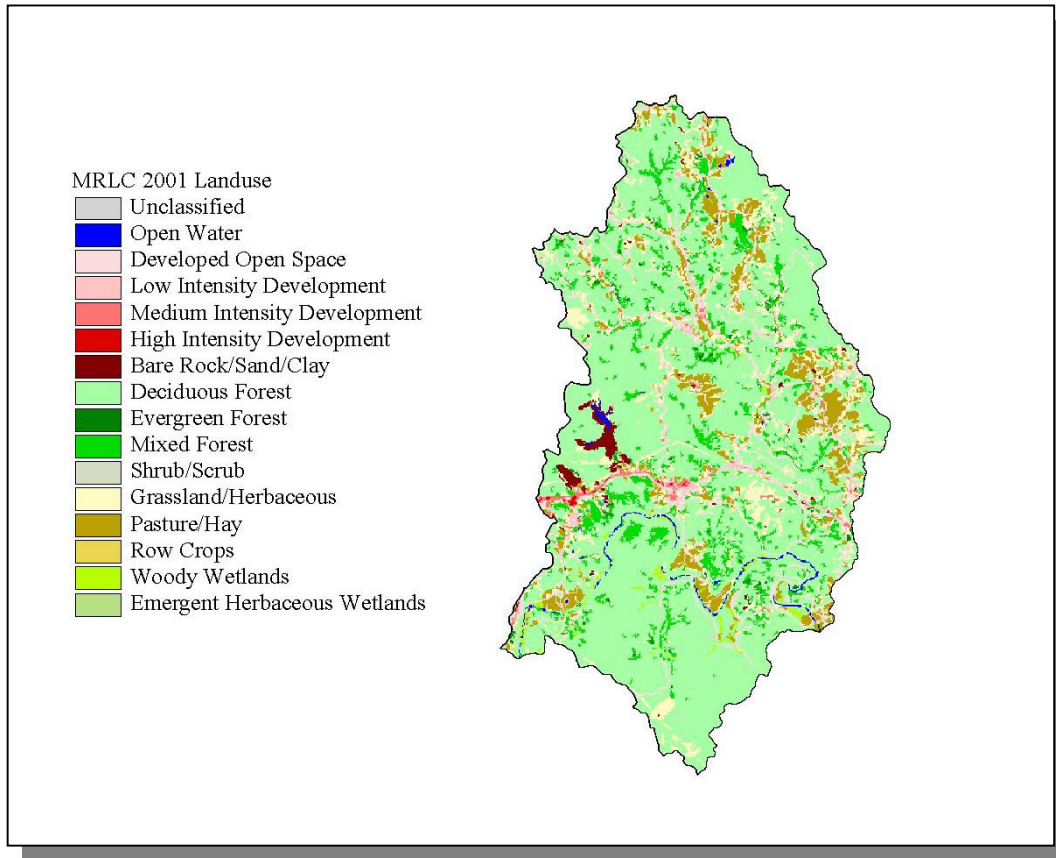


Figure 4-45. Illustration of Land Use Distribution in Subwatershed 051301040106.

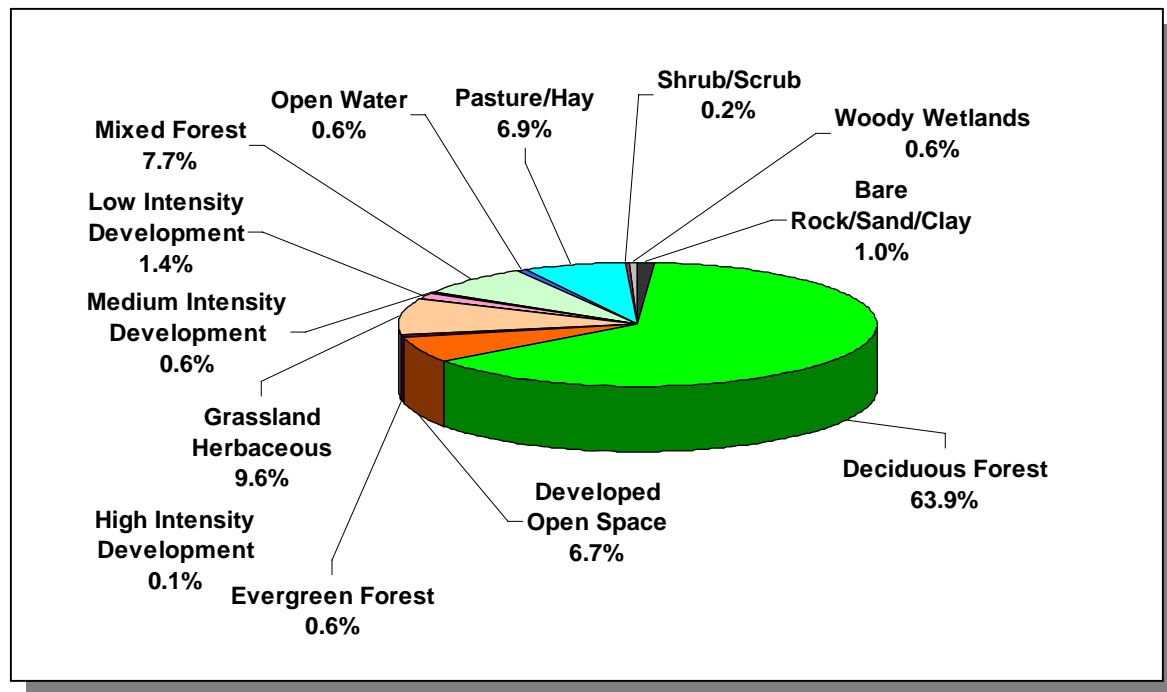


Figure 4-46. Land Use Distribution in Subwatershed 051301040106. More information is provided in Appendix IV.

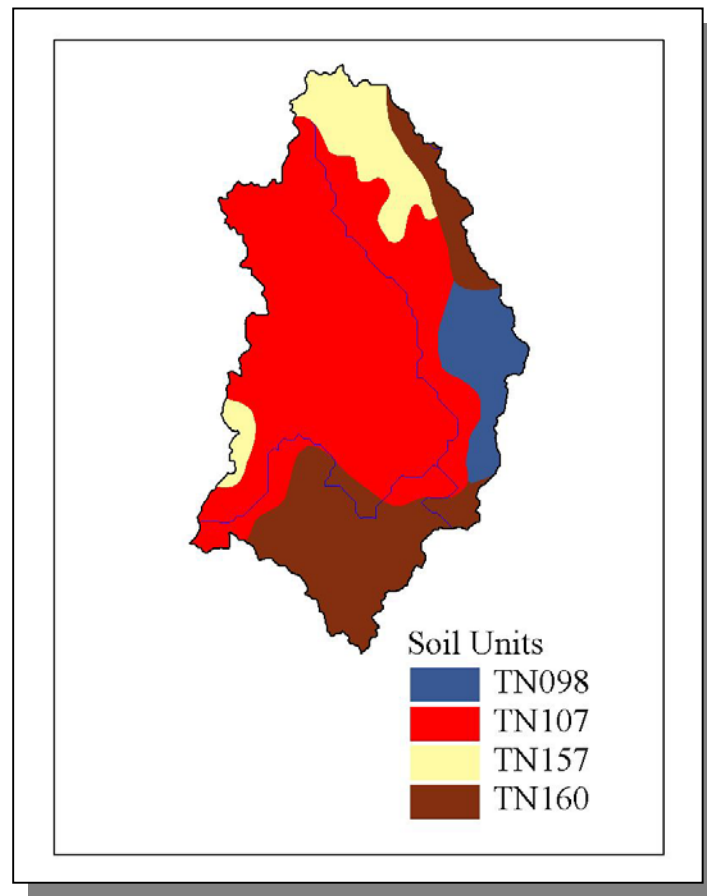


Figure 4-47. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040106.

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STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-34. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040106. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	8.37	1,536	1,658	1,768	15.1

Table 4-35. Population Estimates in Subwatershed 051301040106.

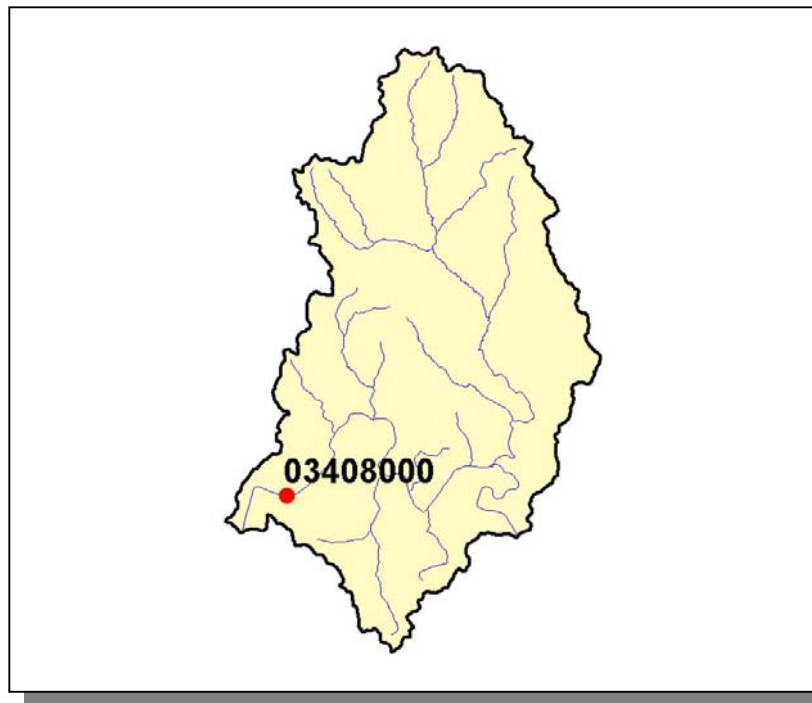


Figure 4-48. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040106. More information is provided in Appendix IV.

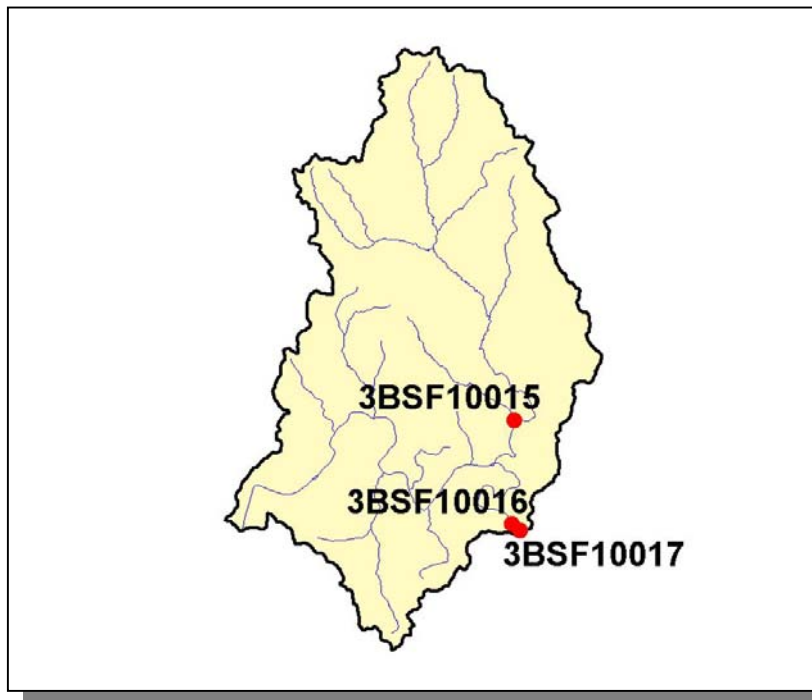


Figure 4-49. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040106. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.vi.a. Point Source Contributions.

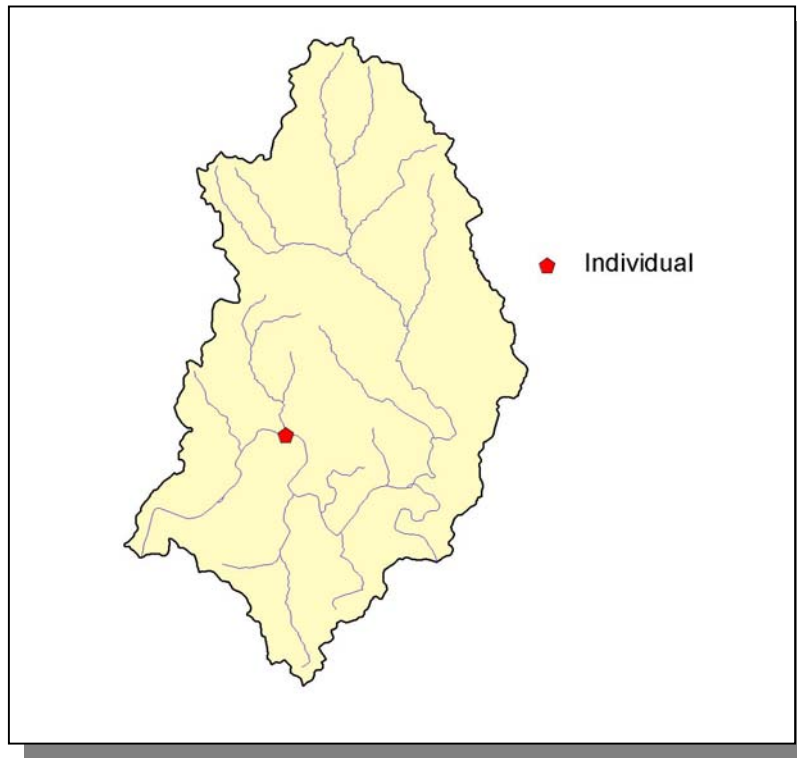


Figure 4-50. Location of Permits Issued in Subwatershed 051301040106. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-51. Location of Active NPDES Sites in Subwatershed 051301040106. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.vi.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
317	647	31	<5	289,541	<5	11

Table 4-36. Summary of Livestock Count Estimates in Subwatershed 051301040106. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-37. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-38. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-39. Annual Estimated Total Soil Loss in Subwatershed 051301040106.

4.2.A.vii. 051301040107 (Brimstone Creek).

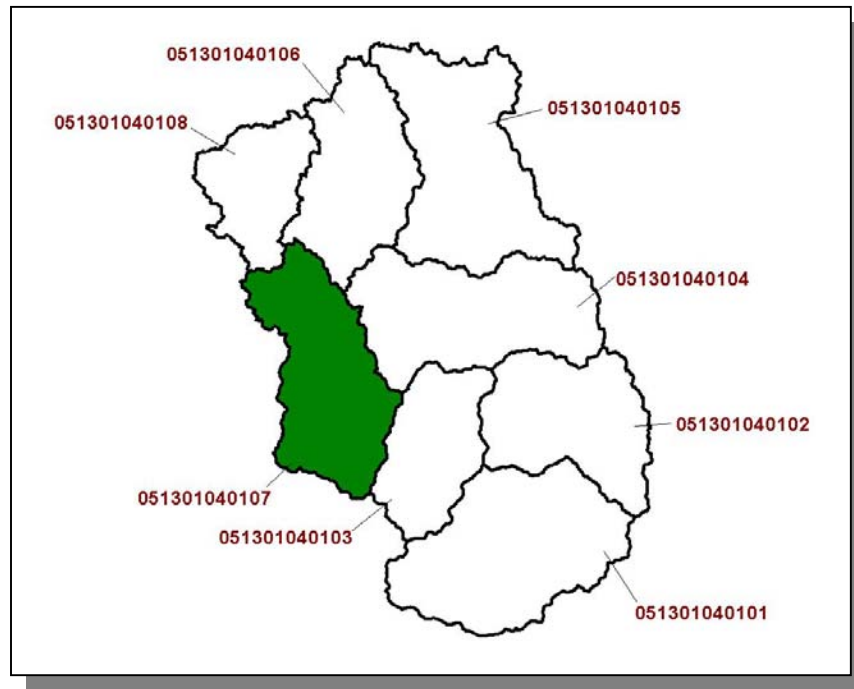


Figure 4-52. Location of Subwatershed 051301040107. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

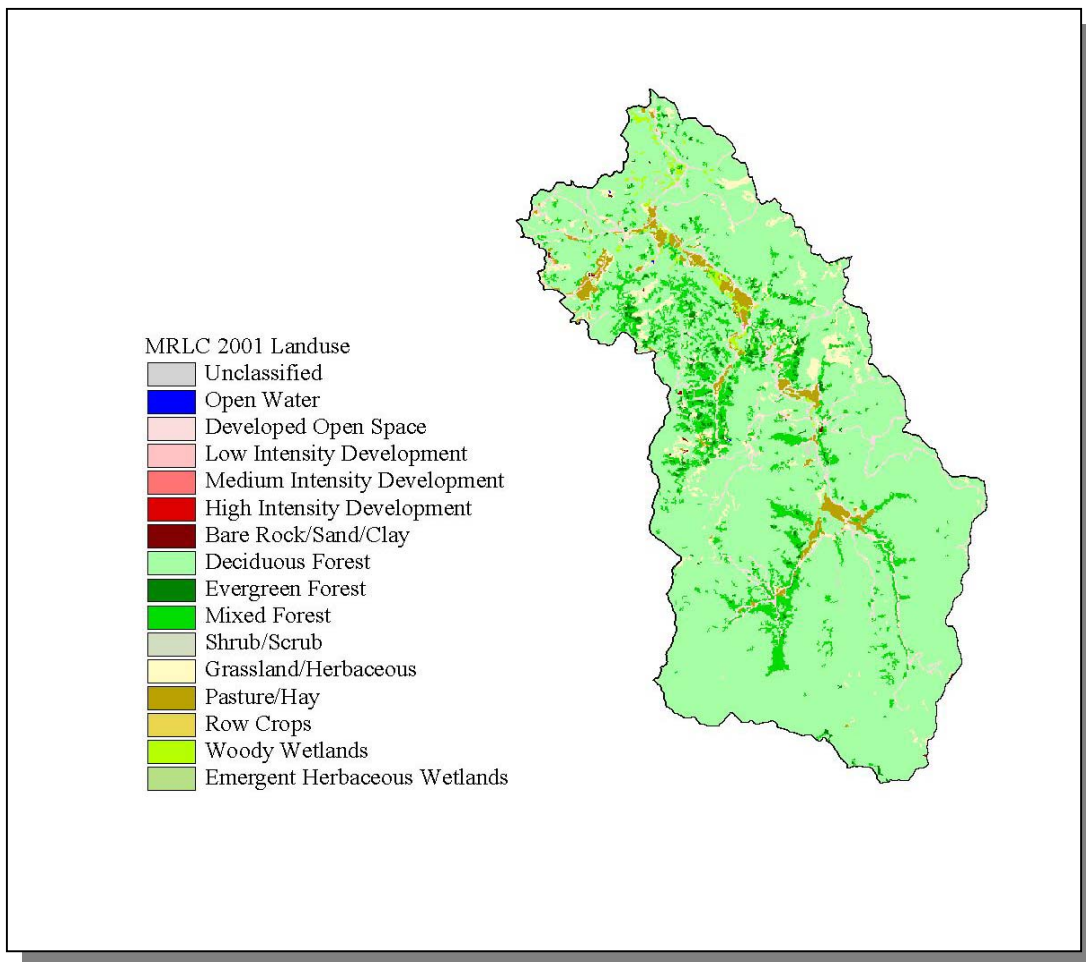


Figure 4-53. Illustration of Land Use Distribution in Subwatershed 051301040107.

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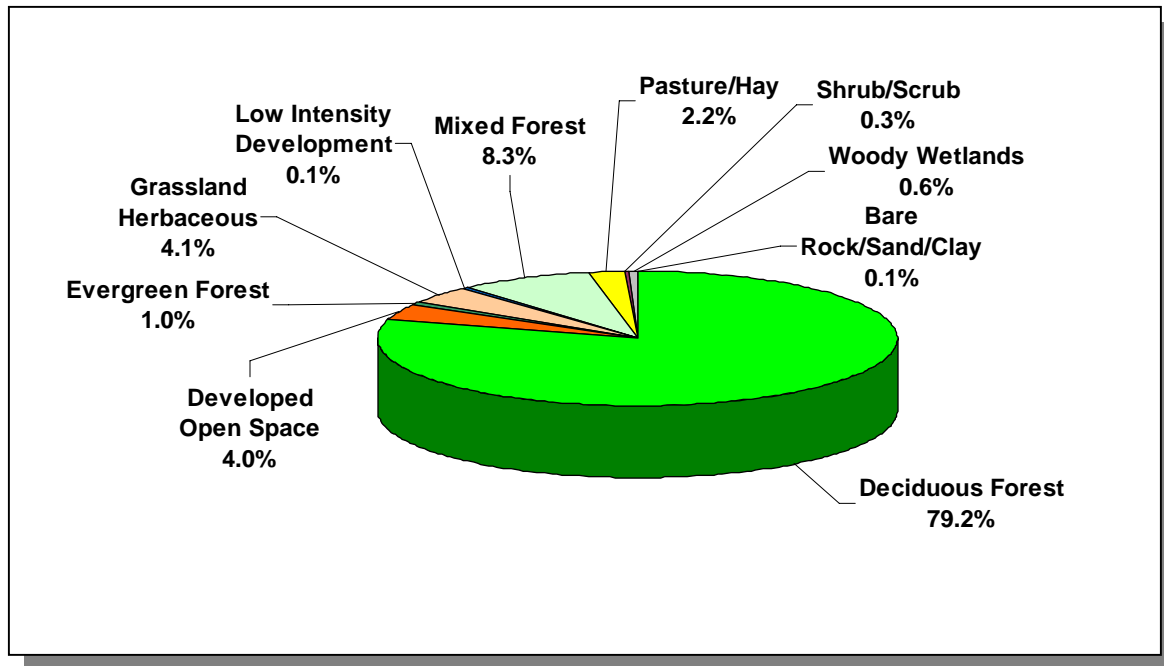


Figure 4-54. Land Use Distribution in Subwatershed 051301040107. More information is provided in Appendix IV.

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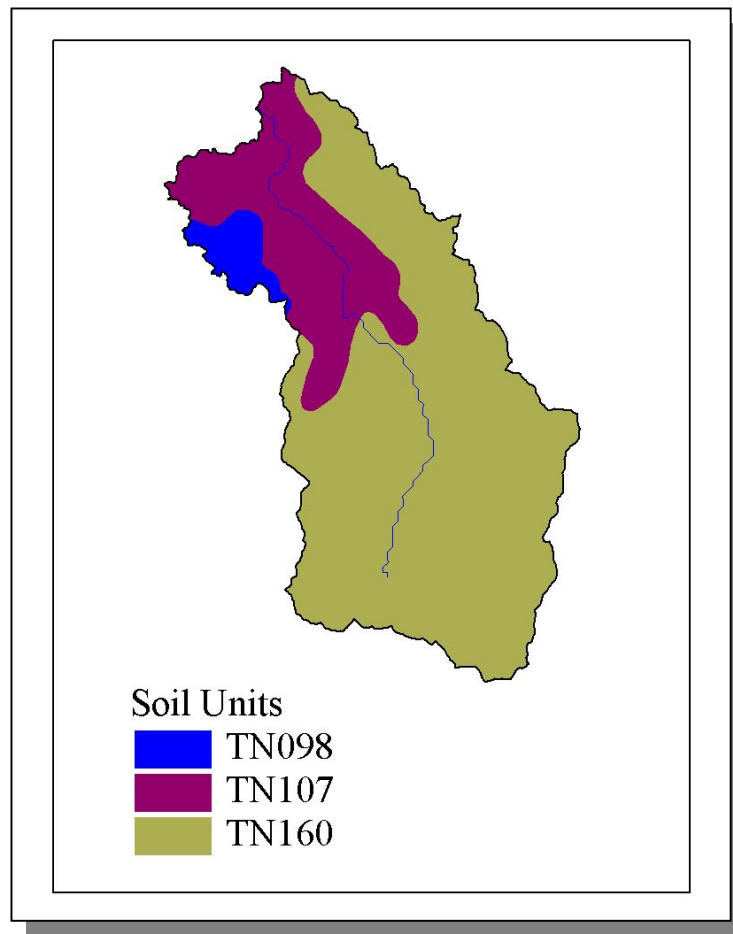


Figure 4-55. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040107.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN098	1.00	C	3.98	4.82	Loam	0.32
TN107	1.00	C	6.34	4.84	Loam	0.28
TN160	0.00	B	2.69	5.36	Loam	0.25

Table 4-40. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040107. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Morgan	17,300	18,521	19,757	1.16	201	215	229	13.9
Scott	18,358	19,816	21,127	8.62	1,583	1,708	1,821	15.0
Total	35,658	38,337	40,884		1,784	1,923	2,050	14.9

Table 4-41. Population Estimates in Subwatershed 051301040107.

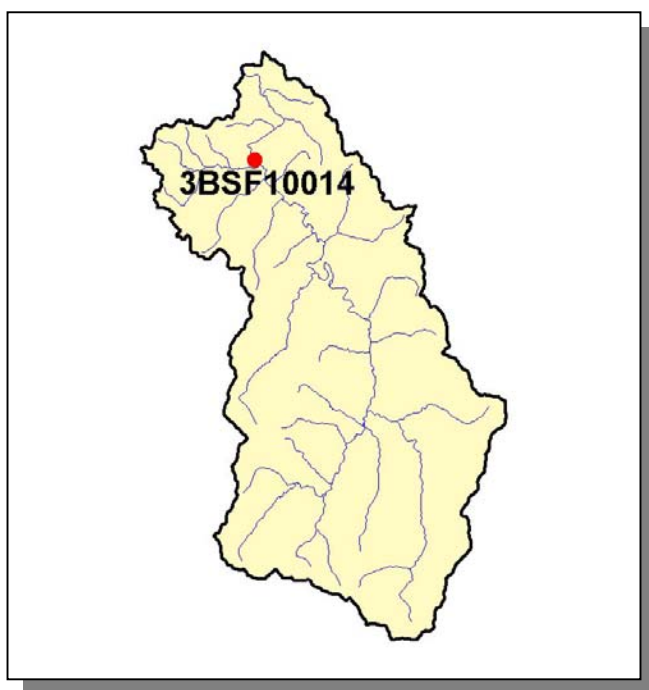


Figure 4-56. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040107. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.vii.a. Point Source Contributions.

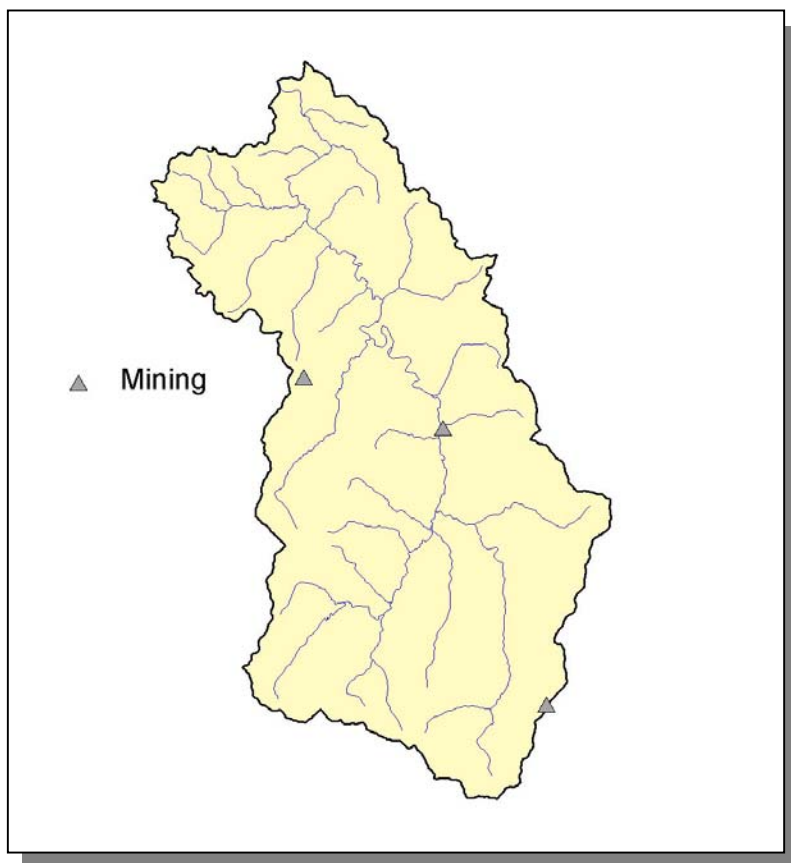


Figure 4-57. Location of Permits Issued in Subwatershed 051301040107. More information, including the names of facilities, is provided in Appendix IV.

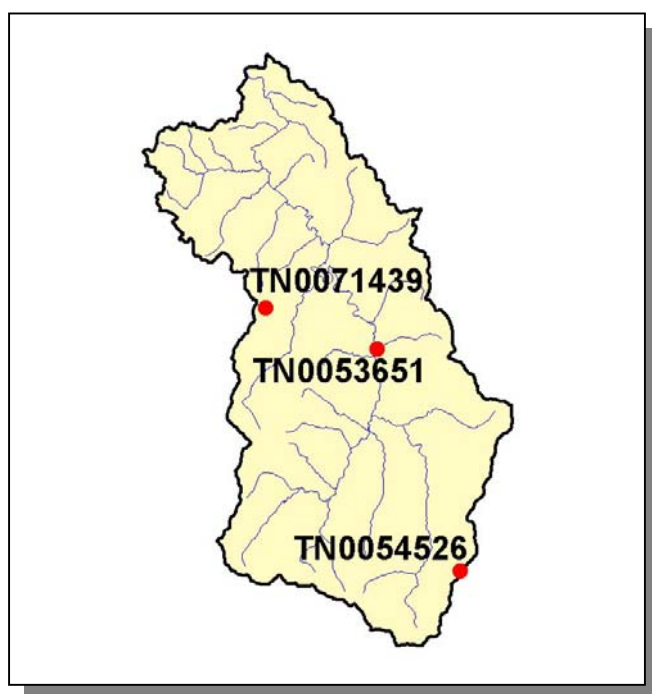


Figure 4-58. Location of Active Mining Sites in Subwatershed 051301040107. More information, including the names of mining operations, is provided in Appendix IV.

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4.2.A.vii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
139	283	13	<5	122,173	<5	5

Table 4-42. Summary of Livestock Count Estimates in Subwatershed 051301040107.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Morgan	4,697	8,853	251	1,501,559	194	83	35
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-43. Summary of Livestock Count Estimates in Morgan and Scott Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Morgan	287.8	276.2	3.5	10.9
Scott	300.3	300.3	5.5	21.4

Table 4-44. Forest Acreage and Annual Removal Rates (1987-1994) in Morgan and Scott Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.34
Grass (Hayland)	0.77
Legumes, Grass (Hayland)	0.21
Grass, Forbs, Legumes (Mixed Pasture)	0.53
Corn (Row Crops)	7.18
Farmsteads and Ranch Headquarters	0.08

Table 4-45. Annual Estimated Total Soil Loss in Subwatershed 051301040107.

4.2.A.viii. 051301040108 (New River).

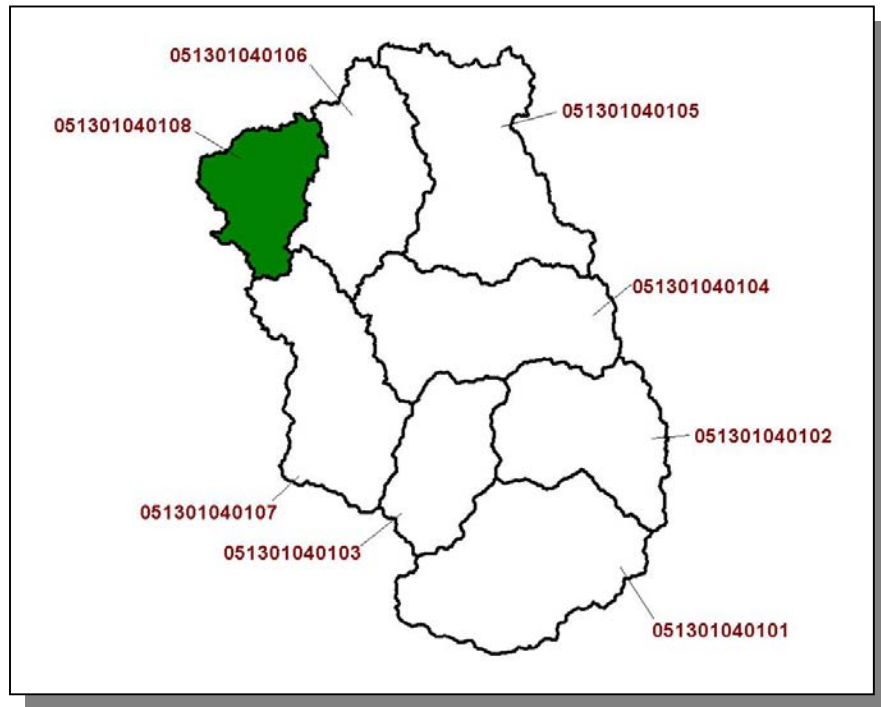


Figure 4-59. Location of Subwatershed 051301040108. All South Fork Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

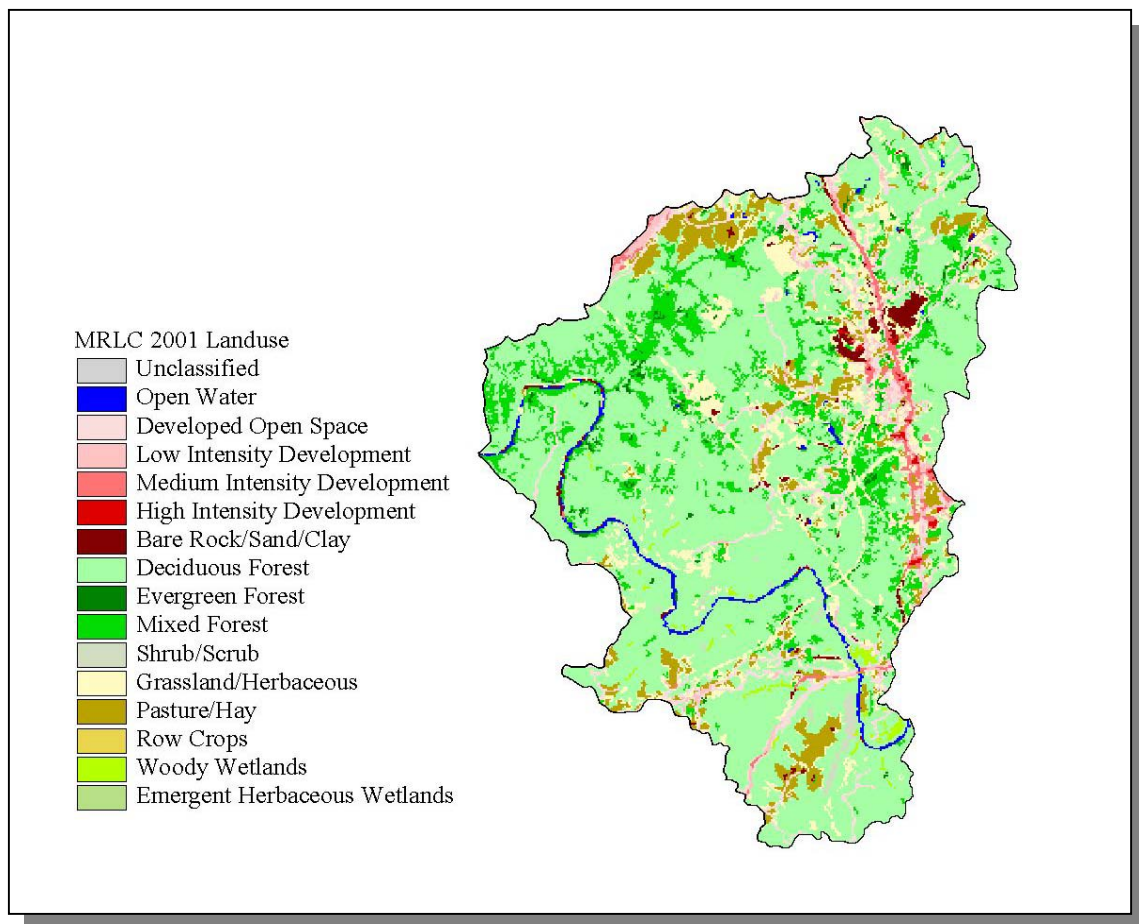


Figure 4-60. Illustration of Land Use Distribution in Subwatershed 051301040108.

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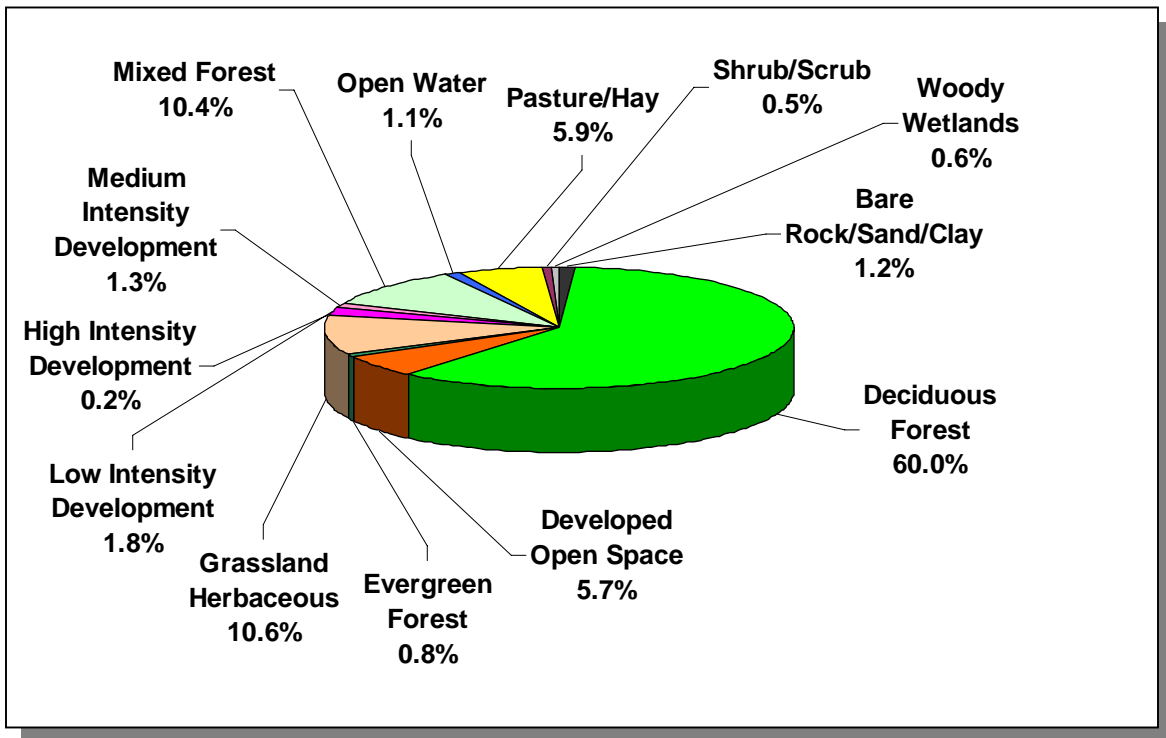


Figure 4-61. Land Use Distribution in Subwatershed 051301040108. More information is provided in Appendix IV.

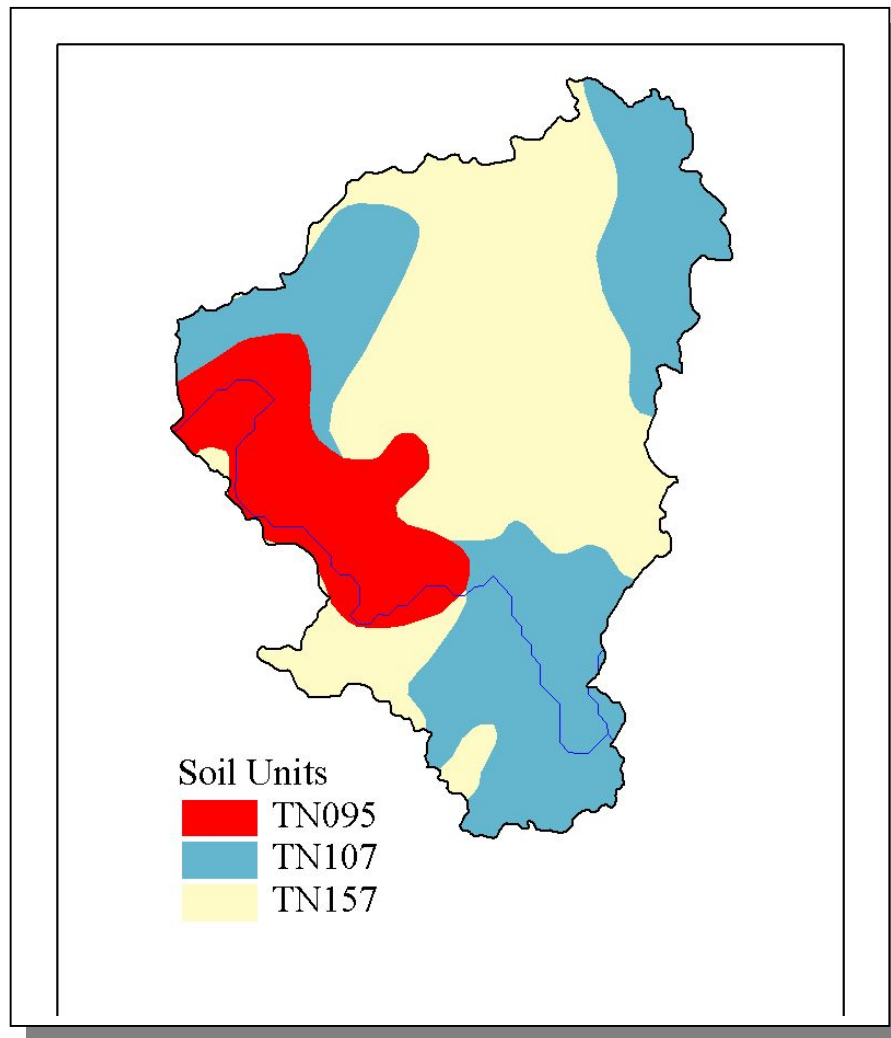


Figure 4-62. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040108.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN107	1.00	C	6.34	4.84	Loam	0.28
TN157	0.00	B	2.38	4.62	Loam	0.28

Table 4-46. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301040108. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Scott	18,358	19,816	21,127	5.19	954	1,029	1,097	15.0

Table 4-47. Population Estimates in Subwatershed 051301040108.

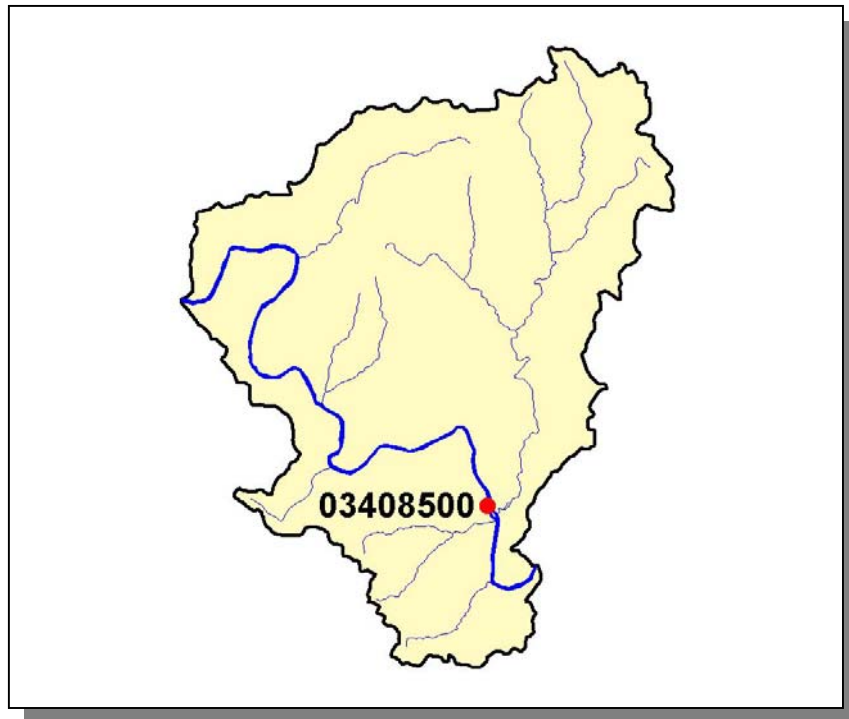


Figure 4-63. Location of Historical Streamflow Data Collection Sites in Subwatershed 051301040108. More information is provided in Appendix IV.

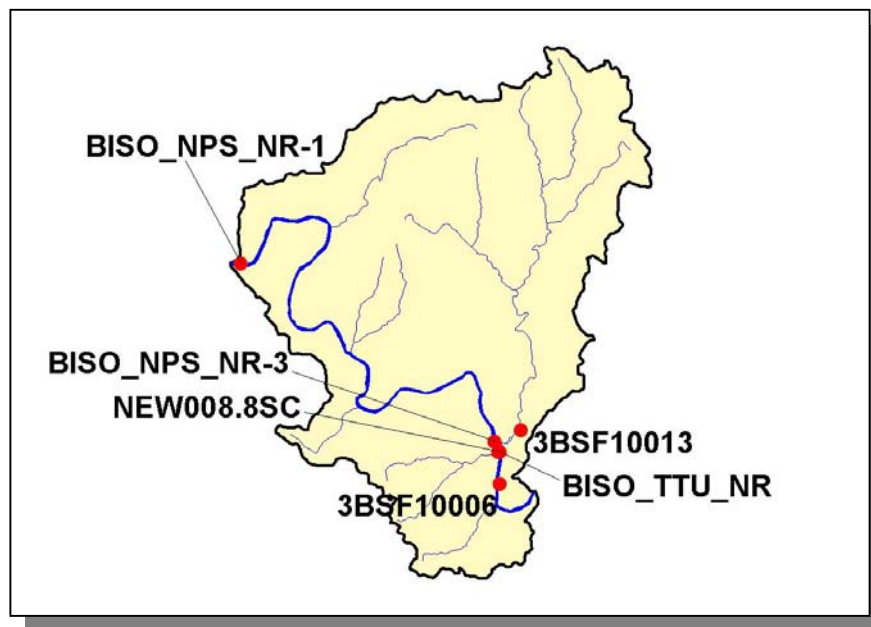


Figure 4-64. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051301040108. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.A.viii.a. Point Source Contributions.

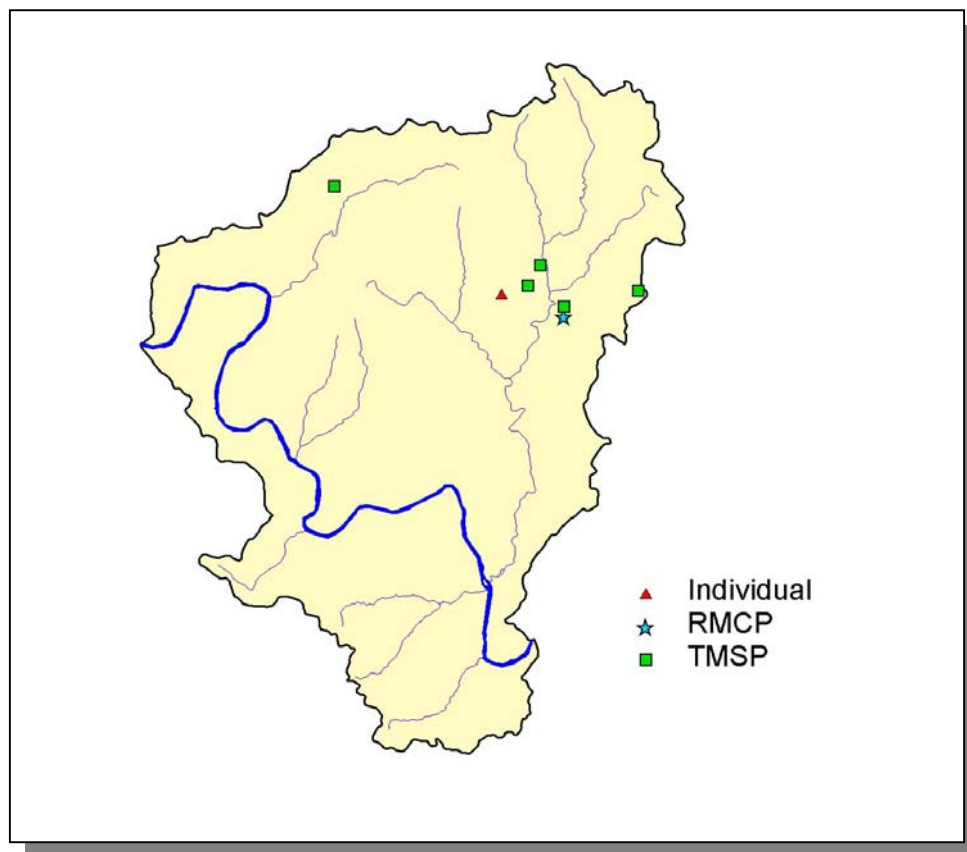


Figure 4-65. Location of Permits Issued in Subwatershed 051301040108. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-66. Location of Active NPDES Sites in Subwatershed 051301040108. More information, including the names of facilities, is provided in Appendix IV.

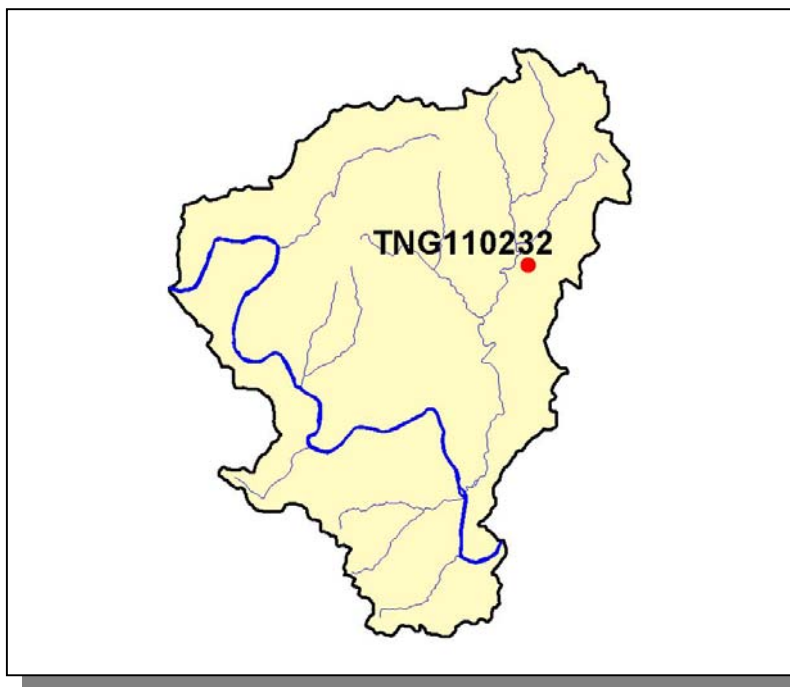


Figure 4-67. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051301040108. More information is provided in Appendix IV.

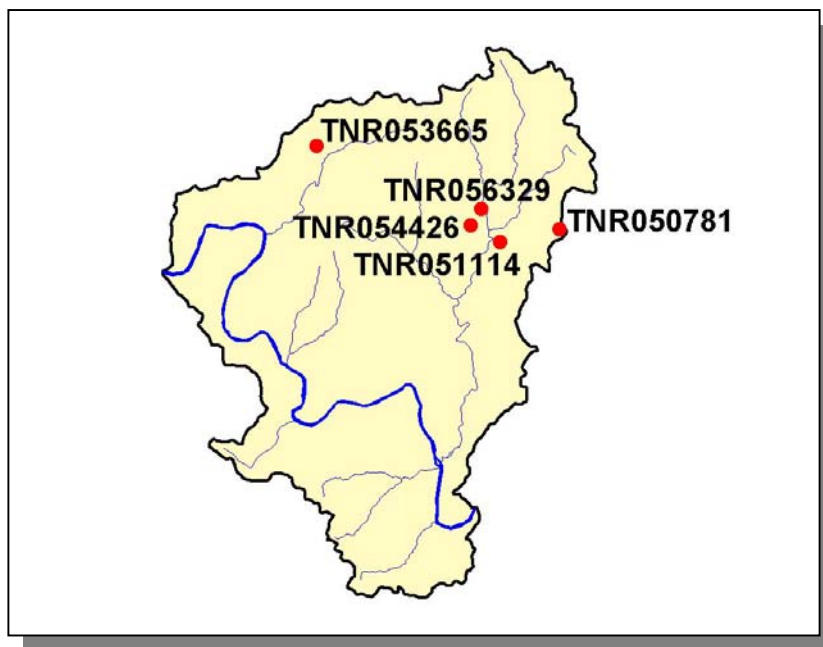


Figure 4-68. Location of TMSP Sites in Subwatershed 051301040108. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.viii.b. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
184	376	18	<5	168,112	<5	6

Table 4-48. Summary of Livestock Count Estimates in Subwatershed 051301040108. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Chickens (Layers)	Hogs	Sheep
Scott	2,177	4,447	216	1,989,506	196	17	74

Table 4-49. Summary of Livestock Count Estimates in Scott County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Scott	300.3	300.3	5.5	21.4

Table 4-50. Forest Acreage and Annual Removal Rates (1987-1994) in Scott County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.33
Grass, Forbs, Legumes (Mixed Pasture)	0.58
Farmsteads and Ranch Headquarters	0.09

Table 4-51. Annual Estimated Total Soil Loss in Subwatershed 051301040108.